Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Alton Pryor Examiner #: 74458 Date: 3/3/03
Art Unit: 1616 Phone Number 308-4691 Serial Number: 09/652,771
Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Herbicidal Compositions

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

***For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.**

Search Attached

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STAFF USE ONLY **Type f Search** **Vend rs and c st where applicable**

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=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 13:58:41 ON 04 MAR 2003
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FILE COVERS 1907 - 4 Mar 2003  VOL 138 ISS 10
FILE LAST UPDATED: 3 Mar 2003  (20030303/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


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L1                STR
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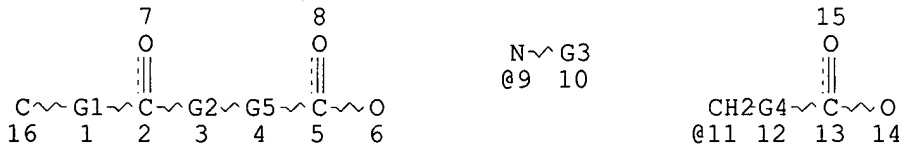


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REP G4=(1-3) CH2
REP G5=(1-4) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  16

STEREO ATTRIBUTES: NONE
L2          8368 SEA FILE=REGISTRY SSS FUL L1
L7        286109 SEA FILE=REGISTRY ABB=ON  PLU=ON  ALKYLAMINE? OR ETHERAMINE?
                 OR QUATERNARY(L)AMMONIUM OR (PYRIDIN? OR IMIDAZOL?)(L)SURFACT?
                 OR DIAMINE? OR METHYLAMINE OR ETHYLAMINE OR PROPYLAMINE OR
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L8            797 SEA FILE=REGISTRY ABB=ON  PLU=ON  METHYLETHERAMINE OR ETHYLETHE
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L9        179899 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L8 OR ALKYLAMINE? OR ETHERAMIN
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               BETAIN? OR ?ETHERAMINE
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L13          639 SEA FILE=REGISTRY ABB=ON  PLU=ON  GLYPHOS?
L14         5603 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L13 OR ?GLYPHOS?
L15            5 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L12 AND L14


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L15  ANSWER 1 OF 5  HCAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:         2001:886039  HCAPLUS
DOCUMENT NUMBER:          136:6148
TITLE:                    Cobalt-catalyzed carboxymethylation of amides to give
                          amino carboxylic acids and derivs.
INVENTOR(S):              Franczyk, Thaddeus S.
PATENT ASSIGNEE(S):       Monsanto Technology Llc, USA
SOURCE:                   PCT Int. Appl., 104 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
     ---------------   ----  --------      ---------------  --------
     WO 2001092208      A1   20011206      WO 2001-US17982  20010601
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CO, CR,
             CU, CZ, DE, DK, DM, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
             ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
             LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
             SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
             ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     US 2002058834      A1   20020516      US 2001-871869   20010601
PRIORITY APPLN. INFO.:                   US 2000-208692P  P  20000601
OTHER SOURCE(S):          CASREACT 136:6148
AB   A process for the prepn. of amino carboxylic acids, N-acyl amino
     carboxylic acids, or derivs. thereof by carboxymethylation of an amide,
     amide precursor or amide source compd. in the presence of a
     carboxymethylation catalyst precursor and a promoter is provided.  A
     carboxymethylation reaction mixt. is formed by introducing a promoter, an
     amide, amide precursor or amide source compd., carbon monoxide, hydrogen,
     an aldehyde or aldehyde source compd., and a carboxymethylation catalyst
     precursor into a carboxymethylation reaction zone.  In one embodiment, the
     amide compd. and aldehyde are selected to yield an N-acyl amino carboxylic
     acid which is readily converted to N-(phosphonomethyl)glycine (I), or a
     salt or ester thereof.  Thus, N,N'-bis(phosphonomethyl)urea was reacted
     with formalin in the presence of Co(OAc)2.bul.4H2O, Pd/C, and acetic acid
     to give I.  Compd. I is useful as a herbicide in combating the presence of
     a wide variety of unwanted vegetation, including agricultural weeds.
IT   97-78-9P, N-Dodecanoylsarcosine 1071-83-6P,
     N-(Phosphonomethyl)glycine 2421-33-2P, N-Hexadecanoylsarcosine
     2671-91-2P, N-Decanoylsarcosine 52558-73-3P,
     N-Tetradecanoylsarcosine
     RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
     (Preparation)
        (Cobalt-catalyzed carboxymethylation of amides to give amino carboxylic
        acids and derivs.)
```

IT **3852-14-0**, Methylene bisacetamide
RL: RCT (Reactant); RACT (Reactant or reagent)
(Cobalt-catalyzed carboxymethylation of amides to give amino carboxylic acids and derivs.)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:733024 HCAPLUS
DOCUMENT NUMBER: 131:318938
TITLE: N-acylsarcosinates as **glyphosate** adjuvants
INVENTOR(S): Crudden, Joseph J.
PATENT ASSIGNEE(S): Hampshire Chemical Corp., USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5985798	A	19991116	US 1998-90833	19980604
ZA 9903311	A	19991115	ZA 1999-3311	19990513
CA 2334029	AA	19991209	CA 1999-2334029	19990521
WO 9962338	A1	19991209	WO 1999-US11353	19990521
W: AU, BR, CA, CN, IN, JP, KR, MX, SG				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9940094	A1	19991220	AU 1999-40094	19990521
BR 9911187	A	20010213	BR 1999-11187	19990521
EP 1083793	A1	20010321	EP 1999-923282	19990521
R: DE, ES, FR, GB, IT, NL, IE				
JP 2002516826	T2	20020611	JP 2000-551610	19990521

PRIORITY APPLN. INFO.: US 1998-90833 A 19980604
WO 1999-US11353 W 19990521

AB An adjuvant for **glyphosate** having increased activity, lower irritancy and lower toxicity than conventional adjuvants, is given. The adjuvant is C8 to C22 sarcosinate or sarcosinate salt, such as sodium cocoylsarcosinate, sodium lauroylsarcosinate, or combinations thereof, which is combined with **glyphosate** in low concns. and provides effective activity.
IT **1071-83-6P, Glyphosate 38641-94-0P**, Roundup
RL: AGR (Agricultural use); MOA (Modifier or additive use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(N-acylsarcosinates as **glyphosate** herbicide adjuvants)
IT **137-16-6**, Sodium lauroylsarcosinate
RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)
(**glyphosate** herbicide adjuvant)
IT **249282-47-1P 249282-48-2P**
RL: AGR (Agricultural use); MOA (Modifier or additive use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. as **glyphosate** herbicide adjuvant)
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:303233 HCAPLUS
DOCUMENT NUMBER: 130:307949
TITLE: Nonirritant herbicidal composition comprising **glyphosate** and an N-acylsarcosinate
INVENTOR(S): Parker, Brian

PATENT ASSIGNEE(S): Ire.
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION
WO 9921423	A1	19990506	WO 1998-IE
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD,		
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
WO 9921424	A1	19990506	WO 1998-IE87 19981023
W:	AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
AU 9895573	A1	19990517	AU 1998-95573 19981023
AU 9896418	A1	19990517	AU 1998-96418 19981023
EP 1024699	A1	20000809	EP 1998-950276 19981023
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI		

PRIORITY APPLN. INFO.: IE 1997-766 A 19971024
WO 1998-IE86 W 19981023
WO 1998-IE87 W 19981023

AB This invention concerns herbicidal compns. comprising **glyphosate** and/or one or more herbicidally active derivs. thereof and an N-acylsarcosinate surfactant. Such compns. exhibit greatly reduced eye irritation to the user while maintaining their herbicidal efficacy.

IT **1071-83-6, Glyphosate 38641-94-0,** Roundup
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(nonirritant herbicidal compn. comprising **glyphosate** and an N-acylsarcosinate)

IT **110-25-8,** Hamposyl O
RL: MOA (Modifier or additive use); USES (Uses)
(nonirritant herbicidal compn. comprising **glyphosate** and an N-acylsarcosinate)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:163658 HCAPLUS
DOCUMENT NUMBER: 128:219332
TITLE: Novel water soluble metal working fluids
INVENTOR(S): Kalota, Dennis J.; Chou, Yueting; Hirzel, Timothy K.; Silverman, David C.; Tou, Jacob S.; Cho, Winsor R.
PATENT ASSIGNEE(S): Monsanto Company, USA; Kalota, Dennis J.; Chou, Yueting; Hirzel, Timothy K.; Silverman, David C.; Tou, Jacob S.; Cho, Winsor R.
SOURCE: PCT Int. Appl., 126 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9808919	A2	19980305	WO 1997-US15241	19970829
WO 9808919	A3	19991028		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9741702	A1	19980319	AU 1997-41702	19970829
CN 1228803	A	19990915	CN 1997-197478	19970829
EP 979266	A2	20000216	EP 1997-939668	19970829
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI				
BR 9713464	A	20000523	BR 1997-13464	19970829
JP 2001507724	T2	20010612	JP 1998-511960	19970829

PRIORITY APPLN. INFO.: US 1996-24976P P 19960830
WO 1997-US15241 W 19970829

OTHER SOURCE(S): MARPAT 128:219332

AB This invention relates to novel water sol. metal working fluid compns., their use to work metal, a process for working metal using such compns. and the metal worked article of manuf. More particularly, this invention relates to fluid compns. useful in cutting, grinding, shaping and other metal working operations which require a lubricant. The terms 1st Group A and 2nd Group B are used herein to denote different groups and not to indicate any sequence of use or selection as any possible combination or sequence of use of a component(s) is envisioned without limit of any kind. The disclosed fluid compns. are also anticorrosive and environmentally more acceptable than current oil based fluids. There has now been discovered an essentially odorless, substantially non-oil misting, water-sol. metal working fluid comprising at least one component selected from a 1st Group A herein and optionally one or more components selected from a 2nd Group B herein preferably with the balance of the compn. being water and other (optional) minor ingredients. When a component is employed from Group A and a component is employed from Group B the action of the combination generally enhances performance of the resulting combination with contain moieties from both Group A and Group B.

IT **97-78-9 110-25-8 1071-83-6,**
N-Phosphonomethylglycine **23605-74-5 81591-81-3**
RL: MOA (Modifier or additive use); USES (Uses)
(water sol. metalworking fluid compn.)

L15 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1995:997688 HCAPLUS
DOCUMENT NUMBER: 124:91170
TITLE: Ethylene glycol based hard water dilutable antifreezing agents for engines
INVENTOR(S): Fei, Yiwei; Zhu, Chengzhang; Hu, Yiqin
PATENT ASSIGNEE(S): Air Force Logistics Coll. of P.L.A., Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 5 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1104675	A	19950705	CN 1993-121035	19931227

PRIORITY APPLN. INFO.: CN 1993-121035 19931227

AB The agents contain chelating agents and monodentate ligands for forming 3-dimensional complexes with Ca2+ and Mg2+ ion when dild. with hard water. The chelating agents are selected from amino trimethylene phosphonic acid, ethylenediamino tetra(methylenephosphonic acid), glycine dimethanephosphonic acid, methylamino di(methylenephosphonic acid), 1-hydroxy ethylidene-1,1-diphosphonic acid, 1-aminoethylidene-1,1-diphosphonic acid, 2-phosphoryl acetic acid, 1-phosphoryl ethane-1,2-dicarboxylic acid, 1-phosphoryl propane-1,2,3-tricarboxylic acid, 2-phosphoryl butane-1,2,4-tricarboxylic acid, salicylaldoxime, benzaldoxime, N-octanoyl sarcosine, N-dodecanoylsarcosine, and N-tetracanoylsarcosine; and the monodentate ligands are selected from salicylic acid, tartaric acid, citric acid, oxalic acid, ascorbic acid, gluconic acid and its Na and Zn salts, acetylacetone, dimercapto propanol, thiourea, and amino thiourea.

IT **97-78-9**, N-Dodecanoylsarcosine **1429-50-1D**, Ethylenediamino tetra(methylenephosphonic acid), glycine dimethanephosphonic acid **2421-32-1 2439-99-8**, Glycine dimethanephosphonic acid **5995-25-5**, Methylamino di(methylenephosphonic acid) **52558-73-3**
RL: MOA (Modifier or additive use); USES (Uses)
(chelating agent and monodentate ligands in hard water dilutable ethylene glycol based antifreezing agents for engines)

=> select hit rn l15 1-5
E1 THROUGH E17 ASSIGNED

=> fil reg
FILE 'REGISTRY' ENTERED AT 13:59:44 ON 04 MAR 2003
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 MAR 2003 HIGHEST RN 496834-05-0
DICTIONARY FILE UPDATES: 3 MAR 2003 HIGHEST RN 496834-05-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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(1071-83-6/RN)
1 97-78-9/BI

(97-78-9/RN)
1 110-25-8/BI
(110-25-8/RN)
1 38641-94-0/BI
(38641-94-0/RN)
1 52558-73-3/BI
(52558-73-3/RN)
1 137-16-6/BI
(137-16-6/RN)
1 1429-50-1/BI
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1 2671-91-2/BI
(2671-91-2/RN)
1 3852-14-0/BI
(3852-14-0/RN)
1 5995-25-5/BI
(5995-25-5/RN)
1 81591-81-3/BI
(81591-81-3/RN)

L16 17 (1071-83-6/BI OR 97-78-9/BI OR 110-25-8/BI OR 38641-94-0/BI OR 52558-73-3/BI OR 137-16-6/BI OR 1429-50-1/BI OR 23605-74-5/BI OR 2421-32-1/BI OR 2421-33-2/BI OR 2439-99-8/BI OR 249282-47-1/BI OR 249282-48-2/BI OR 2671-91-2/BI OR 3852-14-0/BI OR 5995-25-5/BI OR 81591-81-3/BI)

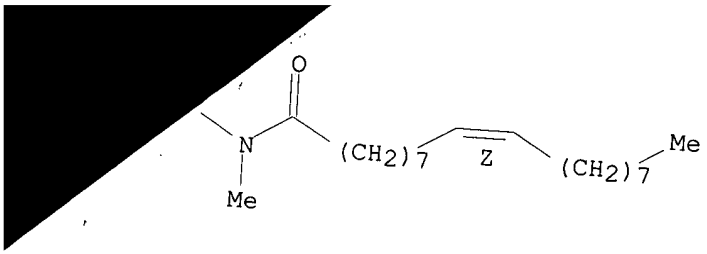
=> d ide can l16 1-17

L16 ANSWER 1 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **249282-48-2** REGISTRY
CN Glycine, N-methyl-N-[(9Z)-1-oxo-9-octadecenyl]-, compd. with 2-propanamine (1:1) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Propanamine, compd. with N-methyl-N-[(9Z)-1-oxo-9-octadecenyl]glycine (1:1) (9CI)
FS STEREOSEARCH
MF C21 H39 N O3 . C3 H9 N
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

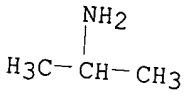
CRN 110-25-8
CMF C21 H39 N O3

Double bond geometry as shown.



CM 2

CRN 75-31-0
CMF C3 H9 N



2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 132:218342

REFERENCE 2: 131:318938

L16 ANSWER 2 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **249282-47-1** REGISTRY
CN Glycine, N-methyl-N-(1-oxododecyl)-, compd. with 2-propanamine (1:1) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Propanamine, compd. with N-methyl-N-(1-oxododecyl)glycine (1:1) (9CI)
MF C15 H29 N O3 . C3 H9 N
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

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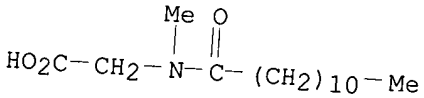
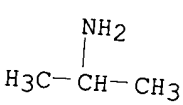
CRN 97-78-9
CMF C15 H29 N O3



CM 2

CRN 75-31-0
CMF C3 H9 N



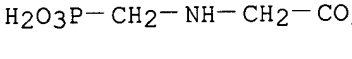
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 131:318938

L16 ANSWER 3 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **81591-81-3** REGISTRY
CN Glycine, N-(phosphonomethyl)-, ion(1-), trimethylsulfonium (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sulfonium, trimethyl-, salt with N-(phosphonomethyl)glycine (1:1) (9CI)
OTHER NAMES:
CN Avans 330
CN Glyphosate mono(trimethylsulfonium) salt
CN Glyphosate trimethylsulfonium salt
CN Glyphosate-trimesium
CN Medallon
CN N-Phosphonomethylglycine monotrimethylsulfonium salt
CN Ouragan
CN SC 0224
CN Sulfosate
CN Touchdown
CN Trimethylsulfonium glyphosate
DR 133000-38-1, 134123-46-9, 97626-33-0, 99534-06-2, 114416-13-6, 144236-63-5, 152969-57-8, 90891-17-1, 87090-28-6, 88426-50-0, 181289-47-4
MF C3 H9 S . C3 H7 N O5 P
CI COM
LC STN Files: AGRICOLA, AQUIRE, BIOBUSINESS, BIOSIS, CA, CAPLUS, CBNB, CEN, CHEMLIST, CIN, MRCK*, PROMT, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)

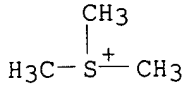
CM 1

CRN 81591-80-2
CMF C3 H7 N O5 P



CM 2

CRN 676-84-6
CMF C3 H9 S



223 REFERENCES IN FILE CA (1962 TO DATE)
36 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
224 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:92184

REFERENCE 2: 138:68344

REFERENCE 3: 138:68331

REFERENCE 4: 138:51349

REFERENCE 5: 138:20913

REFERENCE 6: 138:20862

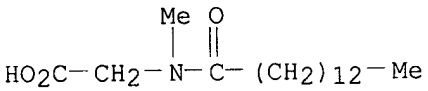
REFERENCE 7: 137:381212

REFERENCE 8: 137:364832

REFERENCE 9: 137:321567

REFERENCE 10: 137:306062

L16 ANSWER 4 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **52558-73-3** REGISTRY
CN Glycine, N-methyl-N-(1-oxotetradecyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sarcosine, N-myristoyl- (6CI, 7CI)
OTHER NAMES:
CN Hamposyl M
CN Myristoyl sarcosine
CN N-Myristoylsarcosine
CN N-Tetradecanoylsarcosine
FS 3D CONCORD
DR 116918-93-5
MF C17 H33 N O3
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CBNB, CHEMLIST, MSDS-OHS, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

46 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
47 REFERENCES IN FILE CAPLUS (1962 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:129505

REFERENCE 2: 137:83417

REFERENCE 3: 136:90707

REFERENCE 4: 136:74312

REFERENCE 5: 136:6148

REFERENCE 6: 135:50894

REFERENCE 7: 135:50893

REFERENCE 8: 134:357374

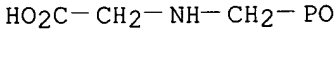
REFERENCE 9: 132:278350

REFERENCE 10: 132:227166

L16 ANSWER 5 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **38641-94-0** REGISTRY
CN Glycine, N-(phosphonomethyl)-, compd. with 2-propanamine (1:1) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Propanamine, compd. with N-(phosphonomethyl)glycine (1:1) (9CI)
OTHER NAMES:
CN Azural AT
CN Buggy
CN Fosulen
CN Glyphosate isopropylamine
CN Glyphosate isopropylamine salt
CN Glyphosate mono(isopropylamine) salt
CN MON 0139
CN MON 39
CN N-(Phosphonomethyl)glycine isopropylamine salt
CN N-(Phosphonomethyl)glycine isopropylammonium salt
CN N-(Phosphonomethyl)glycine monoisopropylamine salt
CN Nitosorg
CN Rodeo
CN Ron-do
CN Roundup
CN Roundup Custom
CN Roundup Ultra
CN Utal
CN Utal (herbicide)
CN Vision
CN Vision (herbicide)
DR 96638-41-4, 96639-11-1, 106805-61-2, 39226-77-2, 258263-91-1
MF C3 H9 N . C3 H8 N O5 P
CI COM
LC STN Files: AGRICOLA, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

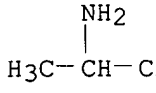
CM 1

CRN 1071-83-6
CMF C3 H8 N O5 P



CM 2

CRN 75-31-0
CMF C3 H9 N



774 REFERENCES IN FILE CA (1962 TO DATE)

37 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
775 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:132557

REFERENCE 2: 138:69784

REFERENCE 3: 138:68331

REFERENCE 4: 138:50757

REFERENCE 5: 138:44210

REFERENCE 6: 138:34679

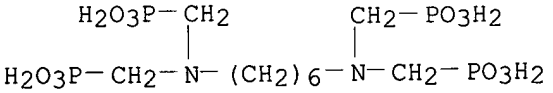
REFERENCE 7: 138:20862

REFERENCE 8: 137:381212

REFERENCE 9: 137:334232

REFERENCE 10: 137:306062

L16 ANSWER 6 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **23605-74-5** REGISTRY
CN Phosphonic acid, [1,6-hexanediylbis[nitrilobis(methylene)]]tetrakis- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phosphonic acid, [hexamethylenebis(nitrilodimethylene)]tetra- (7CI, 8CI)
OTHER NAMES:
CN (Hexamethylenedinitrilo)tetrakis[methylenephosphonic acid]
CN 1,6-Hexanediaminetetrakis(methylene phosphonic acid)
CN Dequest 2051
CN HDTMP
CN N,N,N',N'-1,6-Hexamethylenediaminetetrakis(methylenephosphonic acid)
CN N,N,N',N'-Hexamethylenediaminetetra(methylenephosphonic acid)
FS 3D CONCORD
DR 66300-27-4, 67774-90-7
MF C10 H28 N2 O12 P4
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, PIRA, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

252 REFERENCES IN FILE CA (1962 TO DATE)
22 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
253 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:124060

REFERENCE 2: 138:76609

REFERENCE 3: 138:43754

REFERENCE 4: 138:16375

REFERENCE 5: 137:361757

REFERENCE 6: 137:357769

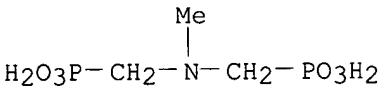
REFERENCE 7: 137:339156

REFERENCE 8: 137:299364

REFERENCE 9: 137:141996

REFERENCE 10: 137:66600

L16 ANSWER 7 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **5995-25-5** REGISTRY
CN Phosphonic acid, [(methylimino)bis(methylene)]bis- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phosphonic acid, [(methylimino)dimethylene]di- (7CI, 8CI)
OTHER NAMES:
CN Methylaminodi(methylenephosphonic acid)
CN Methylaminodi(methylphosphonic acid)
CN Methyliminobis[methylenephosphonic acid]
CN N,N-Bis(phosphonomethyl)methylamine
CN N-Methyliminobis(methylenephosphonic acid)
CN N-Methyliminodimethylenebis(phosphonic acid)
CN [(Methylimino)dimethylene]bis(phosphonic acid)
FS 3D CONCORD
MF C3 H11 N O6 P2
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

65 REFERENCES IN FILE CA (1962 TO DATE)
7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
66 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:74913

REFERENCE 2: 138:32355

REFERENCE 3: 138:28902

REFERENCE 4: 137:296153

REFERENCE 5: 137:191272

REFERENCE 6: 137:119035

REFERENCE 7: 137:53036

REFERENCE 8: 136:362928

REFERENCE 9: 136:159029

REFERENCE 10: 134:125543

L16 ANSWER 8 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **3852-14-0** REGISTRY
CN Acetamide, N,N'-methylenebis- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Methylene diacetamide
CN Methylenebisacetamide
CN N,N'-Diacetylmethylenediamine
CN N,N'-Methylenebisacetamide
CN N,N'-Methylenediacetamide
FS 3D CONCORD
MF C5 H10 N2 O2
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, IFICDB, IFIPAT, IFIUDB, MEDLINE, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

AcNH—CH_2—NHAc

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

52 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
52 REFERENCES IN FILE CAPLUS (1962 TO DATE)
11 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 136:6148

REFERENCE 2: 133:283736

REFERENCE 3: 132:222515

REFERENCE 4: 131:172284

REFERENCE 5: 129:189670

REFERENCE 6: 127:191028

REFERENCE 7: 126:238058

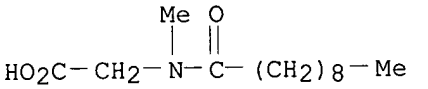
REFERENCE 8: 126:18441

REFERENCE 9: 123:286673

REFERENCE 10: 122:161335

L16 ANSWER 9 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **2671-91-2** REGISTRY
CN Glycine, N-methyl-N-(1-oxodecyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sarcosine, N-decanoyl- (7CI)

OTHER NAMES:
CN N-Decanoylsarcosine
FS 3D CONCORD
MF C13 H25 N O3
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
13 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 136:6148

REFERENCE 2: 108:33666

REFERENCE 3: 107:146519

REFERENCE 4: 106:20931

REFERENCE 5: 105:117013

REFERENCE 6: 105:99916

REFERENCE 7: 103:128822

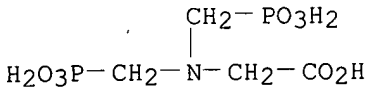
REFERENCE 8: 103:38978

REFERENCE 9: 102:154723

REFERENCE 10: 100:191295

L16 ANSWER 10 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **2439-99-8** REGISTRY
CN Glycine, N,N-bis(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN C 9552
CN CP 41845
CN Glycine-N,N-bis(methylenephosphonic acid)
CN Glycinedimethanephosphonic acid
CN Glyphosine
CN MON 845
CN MON-045
CN N,N-Bis(phosphonomethyl)aminoacetic acid
CN N,N-Bis(phosphonomethyl)glycine
CN N,N-Di(phosphonomethyl)glycine
CN Nitrilomonoacetic acid dimethylenephosphonic acid
CN Nitrilomonomethylcarbonyldimethylphosphonic acid
CN Polaris
CN Polaris (ripening agent)
FS 3D CONCORD
DR 174491-47-5, 174491-49-7, 174491-50-0

MF C4 H11 N O8 P2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CABA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, EMBASE, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, RTECS*, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

240 REFERENCES IN FILE CA (1962 TO DATE)
41 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
241 REFERENCES IN FILE CAPLUS (1962 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:96272

REFERENCE 2: 138:56081

REFERENCE 3: 138:45251

REFERENCE 4: 137:379139

REFERENCE 5: 137:146004

REFERENCE 6: 136:258734

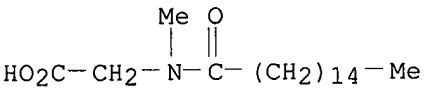
REFERENCE 7: 136:159029

REFERENCE 8: 136:108856

REFERENCE 9: 136:77369

REFERENCE 10: 135:200299

L16 ANSWER 11 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **2421-33-2** REGISTRY
CN Glycine, N-methyl-N-(1-oxohexadecyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sarcosine, N-palmitoyl- (6CI, 7CI, 8CI)
OTHER NAMES:
CN N-Hexadecanoylsarcosine
CN N-Palmitoylsarcosine
FS 3D CONCORD
MF C19 H37 N O3
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

31 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
31 REFERENCES IN FILE CAPLUS (1962 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:114242

REFERENCE 2: 136:349915

REFERENCE 3: 136:6148

REFERENCE 4: 134:224223

REFERENCE 5: 134:223994

REFERENCE 6: 133:63628

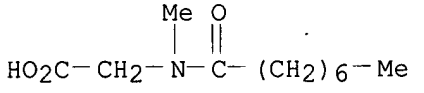
REFERENCE 7: 130:342778

REFERENCE 8: 130:316458

REFERENCE 9: 130:228059

REFERENCE 10: 130:172771

L16 ANSWER 12 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **2421-32-1** REGISTRY
CN Glycine, N-methyl-N-(1-oxooctyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sarcosine, N-octanoyl- (7CI, 8CI)
FS 3D CONCORD
MF C11 H21 N O3
CI COM
LC STN Files: CA, CAOLD, CAPLUS, CHEMCATS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1962 TO DATE)
7 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 124:91170

REFERENCE 2: 115:257522

REFERENCE 3: 105:117013

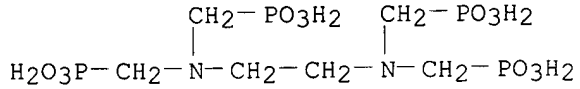
REFERENCE 4: 102:154723

REFERENCE 5: 102:150373

REFERENCE 6: 101:41873

REFERENCE 7: 62:59752

L16 ANSWER 13 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **1429-50-1** REGISTRY
CN Phosphonic acid, [1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phosphonic acid, [ethylenebis(nitrilodimethylene)]tetra- (6CI, 7CI, 8CI)
OTHER NAMES:
CN Briquest 422
CN Cublen 3115
CN Dequest 2040
CN Dequest 2041
CN Editempa
CN EDPA
CN EDPA (chelating agent)
CN EDTF
CN EDTMP
CN EDTMPA
CN EDTPA
CN EDTPH
CN Ethylenedi(nitrilodimethylene)tetraphosphonic acid
CN Ethylenediamine-N,N,N',N'-tetra(methylphosphonic acid)
CN Ethylenediamine-N,N,N',N'-tetrakis(methylenephosphonic acid)
CN Ethylenediaminetetra(methylenephosphonic acid)
CN Ethylenediaminetetrakis(methylenephosphonic acid)
CN Ethylenediaminetetrakis(methylphosphonic acid)
CN Ethylenediaminotetra(methylenephosphonic acid)
CN N,N,N',N'-Tetrakis(phosphonomethyl)ethylenediamine
CN Wayplex 45K
CN [Ethylenebis(nitrilodimethylene)]tetraphosphonic acid
FS 3D CONCORD
DR 54579-31-6, 66300-26-3, 85497-53-6, 244775-21-1
MF C6 H20 N2 O12 P4
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1058 REFERENCES IN FILE CA (1962 TO DATE)
188 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1064 REFERENCES IN FILE CAPLUS (1962 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:124060

REFERENCE 2: 138:102361

REFERENCE 3: 138:91869

REFERENCE 4: 138:91868

REFERENCE 5: 138:91851

REFERENCE 6: 138:76609

REFERENCE 7: 138:75608

REFERENCE 8: 138:74913

REFERENCE 9: 138:74648

REFERENCE 10: 138:74646

L16 ANSWER 14 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **1071-83-6** REGISTRY
CN Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN (Carboxymethylamino)methylphosphonic acid
CN Accord
CN Carboxymethylaminomethanephosphinic acid
CN Folusen
CN Forsat
CN Glialka
CN Glialka 36
CN Glyphodin A
CN Glyphomax
CN Glyphosate
CN Glyphosate CT
CN Herbatop
CN Hockey
CN Lancer
CN MON 2139
CN MON 6000
CN N-Phosphomethylglycine
CN N-Phosphonomethylglycine
CN Phorsat
CN Phosphonomethylglycine
CN Phosphonomethyliminoacetic acid
CN Rebel Garden
FS 3D CONCORD
DR 37337-60-3, 75241-08-6, 42618-09-7
MF C3 H8 N O5 P
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

$HO_2C-CH_2-NH-CH_2-PO_3H_2$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4327 REFERENCES IN FILE CA (1962 TO DATE)
253 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4341 REFERENCES IN FILE CAPLUS (1962 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:142034

REFERENCE 2: 138:133031

REFERENCE 3: 138:132619

REFERENCE 4: 138:132580

REFERENCE 5: 138:122100

REFERENCE 6: 138:121774

REFERENCE 7: 138:121773

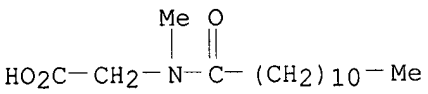
REFERENCE 8: 138:121681

REFERENCE 9: 138:120005

REFERENCE 10: 138:118793

L16 ANSWER 15 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **137-16-6** REGISTRY
CN Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sarcosine, N-lauroyl-, sodium salt (8CI)
OTHER NAMES:
CN Compound 105
CN Enagicol L 30N
CN Firet L
CN Gardol
CN Gardol (antiseptic)
CN GM 9011
CN Hamposyl L 30
CN Hamposyl L 95
CN Lauroyl sarcosine sodium
CN Lauroylsarcosine sodium salt
CN Maprosyl 30
CN Medialan LL 99
CN N-Dodecanoyl-N-methylglycine sodium salt
CN N-Dodecanoylsarcosine sodium salt
CN N-Lauroyl-N-methylglycine sodium salt
CN N-Lauroylsarcosine sodium
CN N-Lauroylsarcosine sodium salt
CN Nikkol Sarcosinate LN
CN Nikkol Sarcosinate LN 3
CN Oramix L 30
CN Sarcosinate LN
CN Sarcosinate LN 3
CN Sarcosinate LN 30
CN Sarkosyl
CN Sarkosyl NL

CN Sarkosyl NL 100
CN Sarkosyl NL 30
CN Sarkosyl NL 35
CN Sarkosyl NL 97
CN Secosyl
CN Sodium Lauroyl Sarcosinate
CN Sodium lauroylsarcosine
CN Sodium N-lauroylsarcosinate
CN Sodium N-lauroylsarcosine
CN Soypon SLE
CN Soypon SLP
DR 75195-12-9
MF C15 H29 N O3 . Na
CI COM
LC STN Files: AGRICOLA, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DIOGENES, EMBASE, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MRCK*, MSDS-OHS, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (97-78-9)



833 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
835 REFERENCES IN FILE CAPLUS (1962 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:126765

REFERENCE 2: 138:126747

REFERENCE 3: 138:125655

REFERENCE 4: 138:123828

REFERENCE 5: 138:112014

REFERENCE 6: 138:95216

REFERENCE 7: 138:61072

REFERENCE 8: 138:14875

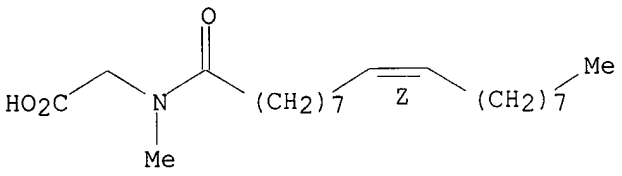
REFERENCE 9: 138:14859

REFERENCE 10: 138:8358

L16 ANSWER 16 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **110-25-8** REGISTRY
CN Glycine, N-methyl-N-[(9Z)-1-oxo-9-octadecenyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)-

CN Sarcosine, N-oleoyl- (6CI, 7CI, 8CI)
OTHER NAMES:
CN 221P
CN Cordesin O
CN Hamposyl O
CN Maprosyl O
CN Medialanic acid
CN N-Oleoylsarcosine
CN N-Oleylsarcosine
CN Nikkol Sarcosinate OH
CN Nikkol Sarcosinate VH
CN Oleic sarcoside
CN Oleic sarcosine
CN Oleoyl N-methylaminoacetic acid
CN Oleoylsarcosine
CN Oleyl methylaminoethanoic acid
CN Oleyl N-methylglycine
CN Sarcosinate OH
CN Sarcosinate VH
CN Sarkosyl O
FS STEREOSEARCH
DR 57368-03-3
MF C21 H39 N O3
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

297 REFERENCES IN FILE CA (1962 TO DATE)
19 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
297 REFERENCES IN FILE CAPLUS (1962 TO DATE)
24 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:327221

REFERENCE 2: 137:282836

REFERENCE 3: 137:129505

REFERENCE 4: 137:38714

REFERENCE 5: 136:372591

REFERENCE 6: 136:343201

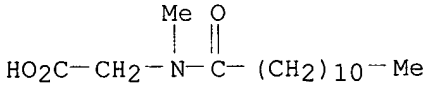
REFERENCE 7: 136:8137

REFERENCE 8: 135:261663

REFERENCE 9: 135:244798

REFERENCE 10: 135:244706

L16 ANSWER 17 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **97-78-9** REGISTRY
CN Glycine, N-methyl-N-(1-oxododecyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sarcosine, N-lauroyl- (6CI, 8CI)
OTHER NAMES:
CN Crodasinic L
CN Hamposyl L
CN Lauroylsarcosine
CN Maprosyl L
CN N-Dodecanoyl-N-methylglycine
CN N-Dodecanoylsarcosine
CN N-Lauroyl-N-methylaminoacetic acid
CN N-Lauroyl-N-methylglycine
CN N-Lauroylsarcosine
CN N-Laurylsarcosine
CN Nikkol Sarcosinate LH
CN Sarcosinate LH
CN Sarcosyl L
CN Sarkosyl L
FS 3D CONCORD
DR 58392-41-9, 15535-18-9
MF C15 H29 N O3
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DDFU, DRUGU, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PROMT, SPECINFO, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

392 REFERENCES IN FILE CA (1962 TO DATE)
17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
393 REFERENCES IN FILE CAPLUS (1962 TO DATE)
16 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:112125

REFERENCE 2: 138:84459

REFERENCE 3: 137:389155

REFERENCE 4: 137:380928

REFERENCE 5: 137:366011

REFERENCE 6: 137:299969

REFERENCE 7: 137:282836

REFERENCE 8: 137:258483

REFERENCE 9: 137:258476

REFERENCE 10: 137:190508

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FILE 'HCAPLUS' ENTERED AT 14:01:21 ON 04 MAR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 4 Mar 2003  VOL 138 ISS 10
FILE LAST UPDATED: 3 Mar 2003  (20030303/ED)

 This file contains CAS Registry Numbers for easy and accurate
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L1                STR
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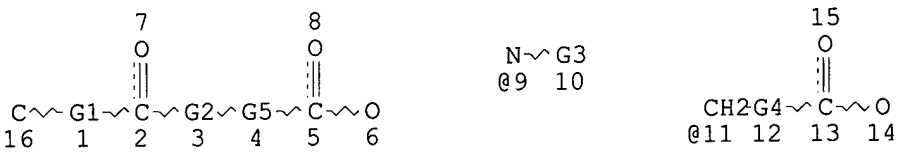


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VAR G3=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/11
REP G4=(1-3) CH2
REP G5=(1-4) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  16

STEREO ATTRIBUTES: NONE
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L7        286109 SEA FILE=REGISTRY ABB=ON  PLU=ON  ALKYLAMINE? OR ETHERAMINE?
                 OR QUATERNARY(L)AMMONIUM OR (PYRIDIN? OR IMIDAZOL?)(L)SURFACT?
                 OR DIAMINE? OR METHYLAMINE OR ETHYLAMINE OR PROPYLAMINE OR
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L8            797 SEA FILE=REGISTRY ABB=ON  PLU=ON  METHYLETHERAMINE OR ETHYLETHE
                 RMAINE OR PROPYLETHERAMINE OR BUTYLETHERAMINE OR BETAIN?
L9        179899 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L8 OR ALKYLAMINE? OR ETHERAMIN
                 E? OR QUATERNARY(L)AMMONIUM OR (PYRIDIN? OR IMIDAZOL?)(L)SURFAC
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               ETHYLETHERMAINE OR PROPYLETHERAMINE OR BUTYLETHERAMINE OR
               BETAIN? OR ?ETHERAMINE
L12         1637 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L2 AND (L9 OR L10)
L13          639 SEA FILE=REGISTRY ABB=ON  PLU=ON  GLYPHOS?
L14         5603 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L13 OR ?GLYPHOS?
L15            5 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L12 AND L14
L17         3497 SEA FILE=REGISTRY ABB=ON  PLU=ON  HERBIC?
L18       105727 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L17 OR ?HERBIC?
L19           13 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L18 AND L12) NOT L15


=> d ibib abs hitrn l19 1-13

L19  ANSWER 1 OF 13  HCAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:         2002:314897  HCAPLUS
DOCUMENT NUMBER:          136:342440
TITLE:                    Mono and polyamides of perfluoroalkyl-substituted
                          unsaturated acids
INVENTOR(S):              Mueller, Karl Friedrich; Bochnik, Michael; Haniff,
                          Marlon; Jennings, John; Kantamneni, Shobha
PATENT ASSIGNEE(S):       Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE:                   PCT Int. Appl., 37 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
     ---------------   ----  --------      ---------------  --------
     WO 2002032855      A2   20020425      WO 2001-EP11647  20011009
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
             UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     AU 2001095603      A5   20020429      AU 2001-95603    20011009
     US 2002068802      A1   20020606      US 2001-978156   20011015
     US 6515175         B2   20030204
PRIORITY APPLN. INFO.:                    US 2000-240633P  P  20001016
                                          US 2001-306784P  P  20010720
                                          US 2000-204633P  P  20001016
                                          WO 2001-EP11647  W  20011009
AB   Novel perfluoroalkyl-substituted mono, di and poly-amide compds. which are
     reaction products of a mono, di or polyamide of 60 to 2000 mol. wt. with a
     perfluoroalkyl substituted unsatd. acid or its corresponding lower alkyl
     ester and optionally a non-fluorinated amino-reactive compd. such as an
     acid, ester, anhydride, epichlorohydrin, isocyanate or urea, are useful as
     internally or externally applied paper sizes to impart oil and grease
     resistance to paper, and as oil proofing coatings on textiles, wood,
     masonry and the like, or as high-performance surface active agents.
IT   3926-62-3DP, Sodium chloroacetate, reaction products with
     perfluoro compds. and diamine compds.
     RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or
     engineered material use); PREP (Preparation); USES (Uses)
        (prepn. of mono and polyamides of perfluoroalkyl-substituted unsatd.
        acids)
IT   415973-29-4P
     RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
```

(Reactant or reagent)
(prepn. of mono and polyamides of perfluoroalkyl-substituted unsatd. acids)

IT **107-15-3**, Ethylenediamine, reactions **109-76-2**, 1,3-Diaminopropane **111-40-0**, Diethylenetriamine **112-24-3**, Triethylenetetramine **10563-26-5**, N,N'-Bis(3-aminopropyl)ethylenediamine
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of mono and polyamides of perfluoroalkyl-substituted unsatd. acids)

L19 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:578597 HCAPLUS
DOCUMENT NUMBER: 135:124156
TITLE: Bactericide combinations in detergents
INVENTOR(S): Elsmore, Richard; Houghton, Mark Phillip
PATENT ASSIGNEE(S): Robert McBride Ltd., UK
SOURCE: Brit. UK Pat. Appl., 53 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2354771	A1	20010404	GB 1999-23253	19991001

PRIORITY APPLN. INFO.: GB 1999-23253 19991001

AB The detergent comprises a bactericide in combination with an anionic, cationic, nonionic or amphoteric surfactant which has a C12-18 alkyl group as the longest chain attached to the hydrophilic moiety. Creduret 50 (hydrogenated ethoxylated castor oil) 50, citric acid 12, formalin 10, sodium alkyl benzene sulfonate (C12-20) alkyl 1, perfume white line 0.5, detergent enzyme savingase 0.2, and bactericide Pr 4-hydroxybenzoate 1.0 parts formed a detergent, showing redn. activity after contact 2.

IT **55-86-7 57-09-0 75-31-0**, 2-Propanamine, uses
100-37-8 101-21-3 104-78-9 107-43-7
107-95-9D, .beta.-Alanine, N-coco alkyl derivs. **108-16-7**
109-89-7, uses **111-40-0D**, 1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with 1-chlorooctane **111-40-0D**, Diethylenetriamine, reaction products with chloroacetic acid, N-mono- and di-C8-18-alkyl derivs. **111-41-1D**, 2-(2-Aminoethyl)aminoethanol, reaction with coco fatty acids, quaternized **111-42-2**, uses **111-92-2 112-18-5**
112-69-6 112-75-4 121-44-8, uses
122-07-6 122-34-9 124-09-4, 1,6-Hexanediamine, uses **137-16-6 330-54-1 683-10-3**
886-50-0 996-35-0 1120-24-7 1643-20-5
1696-17-9 2372-82-9 2571-88-2
3332-27-2 3710-84-7 3926-62-3D, Acetic acid, chloro-, sodium salt, reaction products with 4,5-dihydro-1H-imidazole-1-ethanol 2-norcoco alkyl derivs. and sodium hydroxide **3926-62-3D**, Sodium chloroacetate, reaction products with B-C12-18 alkylmethylenediamines **4182-44-9 4317-79-7**
5332-73-0 5538-95-4 5725-96-2
5915-41-3 7173-62-8 7287-19-6
7378-99-6 10378-23-1 10543-57-4
13197-76-7 13426-91-0 14676-61-0D, 1-Propanamine, 3-(tridecyloxy)-, branched **14762-38-0**
22936-75-0 25988-97-0 27083-27-8
28159-98-0 29873-30-1 29873-33-4
31075-24-8 36362-09-1 39660-17-8
55142-08-0 57413-95-3 57503-06-7

63085-03-0 67228-83-5 94005-95-5
351224-26-5
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); BIOL (Biological study); USES (Uses)
(bactericide combinations in detergents)

L19 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:733275 HCAPLUS
DOCUMENT NUMBER: 130:136436
TITLE: In vivo characterization of the drug resistance profile of the major ABC transporters and other components of the yeast pleiotropic drug resistance network
AUTHOR(S): Kolaczkowski, Marcin; Kolaczkowska, Anna; Luczynski, Jacek; Witek, Stanislaw; Goffeau, Andre
CORPORATE SOURCE: Unite de Biochimie Physiologique, Universite Catholique de Louvain, Louvain la Neuve, Belg.
SOURCE: Microbial Drug Resistance (Larchmont, New York) (1998), 4(3), 143-158
CODEN: MDREFJ; ISSN: 1076-6294
PUBLISHER: Mary Ann Liebert, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Multidrug resistance (MDR) mediated by broad specificity transporters is one of the most important strategies used by pathogens, including cancer cells, to evade chemotherapy. In the yeast Saccharomyces cerevisiae, a complex pleiotropic drug resistance (PDR) network of genes involved in MDR is composed of the transcriptional regulators Pdr1p and Pdr3p, which activate expression of the ATP-binding cassette (ABC) MDR transporter-encoding genes PDR5, SNQ2, and YOR1 as well as other not yet identified genes. Three hundred forty-nine toxic compds. were screened in isogenic S. cerevisiae strains deleted of PDR5, SNQ2, or YOR1 in different combinations as well as both PDR1 and PDR3. The screen revealed extremely promiscuous, yet limited, and to a large extent overlapping but distinct drug resistance profiles of Pdr5p, Snq2p, and Yor1p. These ABC-MDR transporters mediated resistance to most currently available classes of clin. and agriculturally important fungicides and also to many antibiotics, **herbicides**, and others. Several classes of compds. were identified for the 1st time in the drug resistance spectrum of MDR transporters. These are fungicides, such as anilinopyrimidines, benzimidazoles, benzenedicarbonitriles, dithiocarbamates, guanidines, imidothiazoles, polyenes, pyrimidynyl carbinols, and strobilurin analogs; the urea deriv. and anilide **herbicides**; flavonoids, several membrane lipids resembling detergents; and newly synthesized lysosomotropic aminoesters; as well as many others. Identification of compds. showing Pdr1p, Pdr3p-dependent, but Pdr5p-, Snq2p-, and Yor1p-independent toxicity, reflected in the case of rhodamine 6G, by efflux alterations, suggests the involvement of new drug resistance genes and is a first step toward their identification. The highly increased toxicity of bile acids toward the PDR1, PDR3 double disruptant together with the decreased level of BAT1 promoter dependent .beta.-galactosidase activity suggest that the Bat1p ABC transporter is a new member of the PDR network. These results may contribute to a better understanding of the mechanism of MDR, in particular in the pathogenic yeast Candida albicans. They also provide an indication of the physiol. function of MDR transporters and suggest new approaches for the cloning of the mammalian bile acid transporters.

IT **57-09-0**, Hexadecyltrimethylammonium bromide **101-54-2**, p-Aminodiphenylamine **137-16-6**, N-Lauroyl sarcosine sodium salt **150-68-5**, Monuron **330-54-1**, Diuron **330-55-2**, Linuron **13360-45-7**, Chlorbromuron **14933-08-5**, Zwittergent 3-12 **14933-09-6**, Zwittergent 3-14 **15163-36-7**, Zwittergent 3-10

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(drug resistance profile of the major ABC transporters and other components of the yeast pleiotropic drug resistance network)
REFERENCE COUNT: 86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:527297 HCAPLUS
DOCUMENT NUMBER: 129:161184
TITLE: Preparation of fatty acyl and alkyl derivatives of drugs and agrochemicals
INVENTOR(S): Myhren, Finn; Borretzen, Bernt; Dalen, Are; Sandvold, Marit Liland
PATENT ASSIGNEE(S): Norsk Hydro Asa, Norway
SOURCE: PCT Int. Appl., 128 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9832718	A1	19980730	WO 1998-NO21	19980123
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
GB 2321455	A1	19980729	GB 1997-1441	19970124
ZA 9800579	A	19980723	ZA 1998-579	19980123
AU 9857828	A1	19980818	AU 1998-57828	19980123
AU 733370	B2	20010510		
EP 977725	A1	20000209	EP 1998-901593	19980123
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
JP 2001522351	T2	20011113	JP 1998-531863	19980123
NO 9903563	A	19990917	NO 1999-3563	19990721
US 2001006962	A1	20010705	US 1999-355111	19990927

PRIORITY APPLN. INFO.: GB 1997-1441 A 19970124
WO 1998-NO21 W 19980123

AB The properties of biol. active compds., for example drugs and agrochems. which contain in their mol. structure .gtoreq.1 functional groups selected from alc., ether, Ph, amino, amido, thiol, carboxylic acid, and carboxylic acid ester groups are modified by replacing one or more of these functional groups by a lipophilic group selected from those of the formula RCOO-, RCONH-, RCOS-, RCH2O-, RCH2NH-, -COOCH2R, -CONHCH2R and -SCH2R, (R = a lipophilic moiety selected from cis-8-heptadecenyl, trans-8-heptadecenyl, cis-10-nonadecenyl and trans-10-nonadecenyl). Data for biol. activity of title compds. were given.

IT **94-75-7DP**, lipophilic deriv.
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of fatty acyl and alkyl derivs. of drugs and agrochems.)

IT **74-55-5DP**, Ethambutol, lipophilic deriv. **83-89-6DP**, Mepacrine, lipophilic deriv. **52128-35-5DP**, Trimetrexate, lipophilic deriv. **210980-81-7P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of fatty acyl and alkyl derivs. of drugs and agrochems.)
IT **74-55-5**, Ethambutol **83-89-6**, Mepacrine **94-75-7**
, reactions **52128-35-5**, Trimetrexate
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of fatty acyl and alkyl derivs. of drugs and agrochems.)
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:464241 HCAPLUS
DOCUMENT NUMBER: 127:126336
TITLE: Low-irritation and high-foaming detergent compositions containing amide ether surfactants
INVENTOR(S): Isobe, Kazuo; Kita, Kazuo; Yamasuso, Saneyoshi
PATENT ASSIGNEE(S): Kao Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09165596	A2	19970624	JP 1995-327221	19951215

PRIORITY APPLN. INFO.: JP 1995-327221 19951215
OTHER SOURCE(S): MARPAT 127:126336
AB Title compns., which give creamy foam, contain (95:5)-(5:95) (A) amide ether mixts. contg. .gtoreq.50% (99:1)-(30:70) R1CONR2(CH2CH2O)nCH2CO2M [I; R1 = C5-23 alkyl, alkenyl, alkylphenyl; R2 = H, (CH2CH2O)nCH2CO2M, (CH2CH2O)mH, C1-3 alkyl; M = H, alkali metal, alk. earth metal, (alkanol)ammonium, basic amino acid; m, n = 1-10] and R1CONR3(CH2CH2O)nH [II; R1, n = same as I; R3 = H, (CH2CH2O)mH, C1-3 alkyl] and .ltoreq.5% R4OCH2CH(OR4)CH2OR4 [R4 = (CH2CH2O)nCH2CO2M, (CH2CH2O)mH; M, m, n = same as above] and (B) .gtoreq.1 surfactants chosen from N-acyl(methyl)taurines, N-acylglycines, N-acylaspartic acids, N-acylsarcosines, alkyliminodicarboxylic acids, and their salts. Me laurate (214.4 g) was successively treated with 61.7 g HOCH2CH2NH2, 88.2 g ethylene oxide, and 174.8 g ClCH2CO2Na to give an amide ether mixt. contg. 82% I (R1 = C11H23, R2 = H, M = Na, n = 3) and 14% II (R1 = C11H23, R3 = H, n = 3). A body shampoo was prepd. from the mixt. 10, N-(C14 acyl)taurine 5, palm kernel oil fatty acid diehanolamide 3, perfume 0.3, citric acid, NaOH, and H2O to 100%.
IT **141-43-5**, reactions **3926-62-3**, Sodium monochloroacetate
RL: RCT (Reactant); RACT (Reactant or reagent)
(amide ether prepn. from; low-irritation and high-foaming detergents contg. amide ethers and acyltaurines as surfactants)
IT **66466-61-3 139645-76-4**, N-Dodecanoylglycine triethanolamine salt
RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
(low-irritation and high-foaming detergents contg. amide ethers and acyltaurines as surfactants)

L19 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1996:346004 HCAPLUS
DOCUMENT NUMBER: 125:13832
TITLE: Detergent compositions containing amide ethers and amphoteric surfactants
INVENTOR(S): Isobe, Kazuo; Azuma, Toshikazu; Nishikawa, Hideyo; Imamura, Takashi
PATENT ASSIGNEE(S): Kao Corporation, Japan

SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9605281	A1	19960222	WO 1995-JP1566	19950807
W: US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 08104888	A2	19960423	JP 1995-65554	19950324
EP 723004	A1	19960724	EP 1995-927982	19950807
EP 723004	B1	20020703		
R: DE, ES, FR, GB				
ES 2179108	T3	20030116	ES 1995-927982	19950807
US 5693605	A	19971202	US 1996-624632	19960410

PRIORITY APPLN. INFO.: JP 1994-188060 A 19940810
WO 1995-JP1566 W 19950807
OTHER SOURCE(S): MARPAT 125:13832

AB The compns. contain (A) an amide ether deriv. mixt. contg. .gtoreq.50% in total, based on the solid component, of R1CONR2(CH2CH2O)nCH2CO2M (I), and R1CONR3(CH2CH2O)nH [II; R1 = C5-23 alkyl, alkenyl or Ph substituted by C5-23 alkyl; R2 = H, (C2H4O)nCH2CO2M, (C2H4O)mH, C1-3 alkyl; R3 = H, (C2H4O)mH, C1-3 alkyl; M = H, alkali metal cation; n = 1-20] with I/II ratio 99:1 to 10:90, and .ltoreq.5% R4OCH(CH2OR4)2 [R4 = H, (C2H4O)nCH2CO2M, (C2H4O)mH; m, n = 1-20]; and (B) anionic surfactants. The compns. are lowly irritative and highly foaming and give creamy foams.

IT **53576-49-1**
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(lowly irritative detergents contg. amide ethers and anionic surfactants)

IT **141-43-5**, Monoethanolamine, reactions **3926-62-3**, Sodium chloroacetate
RL: RCT (Reactant); RACT (Reactant or reagent)
(lowly irritative detergents contg. amide ethers and anionic surfactants)

L19 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1996:91910 HCAPLUS
DOCUMENT NUMBER: 124:126859
TITLE: Shampoos and other detergent compositions containing carboxylic acids and N-acylamino acid salts
INVENTOR(S): Katsuyama, Tomosuke; Uehara, Keiichi; Fukuda, Toshio
PATENT ASSIGNEE(S): Shiseido Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07304652	A2	19951121	JP 1994-101357	19940516

PRIORITY APPLN. INFO.: JP 1994-101357 19940516
OTHER SOURCE(S): MARPAT 124:126859

AB Shampoos or other detergent compns. with acidic-weakly alk. pH (pH 4-8) and having excellent foaming activities contain: (A) carboxylic acids and/or carboxylic acid salts RCH(OX2)CH2OX1 (I)[R = C4-34 alkyl or alkenyl; X1 and X2 = one is CH2COOM and the other is H (M = H, Na, K, Li,

Mg or other alkali (earth) metal, ammonia, lower alkanolamine cation, lower **alkylamine** cation, basic amino acid cation or aminosugar cation)] and (B) N-acylamino acid salts such as sodium N-Lauroyl-L-glutamate and sodium N-lauroyl sarcosine. Thus, 1,2-dodecanediol, sodium, and dioxane were heated at 100.degree. for 5 h and the reaction product was treated with sodium monochloroacetate to give a mixt. contg. I [R = C10H21; X1 = CH2COONa; X2 = H] and I [R = C10H21; X1 = H; X2 = CH2COONa]. An liq. detergent contained the mixt. 12.5, N-lauroyl-L-glutamic acid K salt 12.5, dipropylene glycol 5, hydroxypropylmethyl cellulose 1, perfumes, and ion-exchanged water to 100%.

IT **137-16-6**, Sodium N-lauroylsarcosine **21539-76-4** **29923-31-7**, Sodium N-Lauroyl-L-glutamate **58956-32-4** **72716-26-8**
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(shampoos and other detergent compns. contg. carboxylic acids and N-acylamino acid salts)

IT **3926-62-3**, Sodium monochloroacetate
RL: RCT (Reactant); RACT (Reactant or reagent)
(shampoos and other detergent compns. contg. carboxylic acids and N-acylamino acid salts)

L19 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1995:879399 HCAPLUS
DOCUMENT NUMBER: 124:32570
TITLE: Peroxide bleach compositions containing cationic activators
INVENTOR(S): Ogura, Nobuyuki; Shimizu, Toshio; Yamaguchi, Yukyoshi; Aoyanagi, Muneo
PATENT ASSIGNEE(S): Kao Corp, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07216396	A2	19950815	JP 1994-8041	19940128

PRIORITY APPLN. INFO.: JP 1994-8041 19940128
OTHER SOURCE(S): MARPAT 124:32570

AB Odorless compns., not causing fading of color in dyed fabrics, etc., contain (a) H2O2 (I) or peroxides releasing I in aq. solns. and (b) AR2CO2R3NR4R5R6+ Y- [II; A = group of Taft .sigma.* value .gtoreq.1.0; R2 = C1-6 alkylene, p-(CH2)mC6H4(CH2)n; m, n = 0-2; R3 = C1-3 alkylene; R4-R6 = C1-5 alkyl, hydroxyalkyl; Y = (in)org. anion]. The cationic compds. II release org. peracids in reaction with I. Thus, Na2C2O6 75, II (AR2 = C11H23CO2CH2; R3 = C2H4, R4-R6 = Me; Y = Cl) 10, Na2CO3 14.9, and [NaOP(OH)(O)]2CMeOH 0.1% were mixed to give a compn. showing a bleaching effect on tea stains.

IT **171890-03-2P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(activators; hydrogen peroxide-based bleaching agents contg. cationic activators releasing org. peracids)

IT **7596-88-5P**, Lauroylglycine
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of cationic activators for peroxide bleaching agents)

IT **108-01-0**, 2-(Dimethylamino)ethanol **3926-62-3**, Sodium chloroacetate

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of cationic activators for peroxide bleaching agents)

L19 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1994:48097 HCAPLUS
DOCUMENT NUMBER: 120:48097
TITLE: Emulsion compositions for preparation of agrochemicals and anti-epidemic drugs
INVENTOR(S): Narasaki, Mitsutoshi; Ikeda, Terukazu
PATENT ASSIGNEE(S): Mikasa Kagaku Kogyo Kk, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05221803	A2	19930831	JP 1992-26977	19920213
JP 3282843	B2	20020520		

PRIORITY APPLN. INFO.: JP 1992-26977 19920213
AB A water-sol. emulsion compn. suitable for prepn. of solid agrochem. or anti-epidemic drug contains a surfactant, a water-insol. org. solvent, an alk. additive, and a silicate. The active ingredient in this compn. can be prepd. in the form of inclusion compd. or microencapsulated. A method of using the compn. in rice paddy is disclosed. Prepn. of a pesticide compn. contg. phenitrothion and prepns. of a variety of agrochems. and anti-epidemic drugs were also demonstrated.
IT **22936-75-0**, Dimethametryn **71561-11-0**, Pyrazoxyfen
RL: ANST (Analytical study)
(Emulsion compn. contg., prepn. of)
IT **74784-46-6**
RL: ANST (Analytical study)
(gelation agent, in prepn. of emulsion contg. agrochem. or disinfectant)

L19 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1992:612964 HCAPLUS
DOCUMENT NUMBER: 117:212964
TITLE: Preparation of N-substituted aspartic acids, their salts, and the intermediates.
INVENTOR(S): Imanaka, Takehiro; Mizushima, Yosen; Yokota, Yukinaga; Yamada, Isao; Suzuki, Satoru
PATENT ASSIGNEE(S): Kao Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04145056	A2	19920519	JP 1990-268074	19901004

PRIORITY APPLN. INFO.: JP 1990-268074 19901004
OTHER SOURCE(S): CASREACT 117:212964; MARPAT 117:212964
AB R1CONR2CH(CO2M)CH2CO2M [I; R1 = alkyl, alkenyl; R2 = (hydroxy)alkyl, alkenyl, -E-N(R3)2Y, HO(AO)nA; n = 1-20; A = alkylene, E = alkylene; R3 = alkyl, Y = (hydroxy)alkyl substituted by CO2- or SO3-; M = H, alkali metal, etc.], useful as surfactants (no data), are prepd., e.g., via reaction of R6NHCH(CO2R4)CH2CO2R5 [R4, R5 = alkyl; R6 = (hydroxy)alkyl, alkenyl, HO(AO)nA] with R1COX (X = OH, halo, alkoxy, OCOR1]. Maleic acid

di-Me ester was reacted with 40% aq. MeNH2 at 25-30.degree. for 4 h, the product was acylated with lauroyl chloride to give N-methyl-N-lauroylaspartic acid di-Me ester, which was hydrolyzed (NaOH) to give 33% I [R1CO = lauroyl, R2 = Me, M = H).

IT **144207-27-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as intermediate for surfactants)

IT **144207-23-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as surfactant)

IT **74-89-5, Methylamine**, reactions **109-55-7**, 3-(Dimethylamino)**propylamine 929-06-6** **3926-62-3**, Sodium chloroacetate
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in prepn. of surfactants)

L19 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1987:459436 HCAPLUS
DOCUMENT NUMBER: 107:59436
TITLE: Structure elucidation of the antimycetic glycolipodepsipeptide **herbicolin** A
AUTHOR(S): Koenig, W. A.; Aydin, M.; Lucht, N.; Winkelmann, G.; Lupp, R.; Jung, G.
CORPORATE SOURCE: Inst. Org. Chem., Univ. Hamburg, Hamburg, D-2000/13, Fed. Rep. Ger.
SOURCE: Chemistry of Peptides and Proteins (1986), 3, 307-20
CODEN: CHPPER; ISSN: 0723-6271
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The structure of **herbicolin** A (I) was established by gas chromatog. and mass spectral techniques.

IT **109329-83-1 109329-84-2**
RL: PRP (Properties)
(mass spectrum of, in structure elucidation of **herbicolin** A)

IT **74188-23-1, Herbicolin** A
RL: PROC (Process)
(mol. structure detn. of)

L19 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1975:565734 HCAPLUS
DOCUMENT NUMBER: 83:165734
TITLE: Scouring agents for textiles
INVENTOR(S): Fukunishi, Akira
PATENT ASSIGNEE(S): Sanyo Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50059572	A2	19750522	JP 1973-109709	19730929
JP 51033224	B4	19760918		

PRIORITY APPLN. INFO.: JP 1973-109709 19730929
GI For diagram(s), see printed CA Issue.
AB Compns. contg. R1CONR2ZCO2R3 (R1 = C.gtoreq.7 hydrocarbon group; R2 = H or an org. group; Z = an org. bivalent group; R3 = alkali metal or amine) and an amphoteric carboxylic acid surfactant contg. C.gtoreq.8 hydrocarbon groups are used as scouring agents for fibers. Thus, Na N-lauroylglycinate [**18777-32-7**] 100, I [13039-26-4] 50, and H2O

150 parts were mixed. Silk yarns were immersed in an aq. compn. contg. 0.5 wt.% of the resulting paste and 0.3 wt.% Na silicate for 60 min at 95-98.degree. to give white yarns with good hand. Na N-lauroylalaninate [**55535-58-5**], dimethyl(stearamidopropyl)**betaine** [6179-44-8], and the reaction products of N,N-bis(2-hydroxyethyl)stearamide [93-82-3] and Na monochloroacetate [**3926-62-3**] were also used. Cotton and wool fabrics were also scoured.

IT **55535-58-5**
RL: USES (Uses)
(scouring agents contg., for cotton fabrics, for increased whiteness)

IT **18777-32-7**
RL: USES (Uses)
(scouring agents contg., for silk fabrics, for increased whiteness)

L19 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1975:60516 HCAPLUS
DOCUMENT NUMBER: 82:60516
TITLE: N-Acyl sarcosine salts
INVENTOR(S): Bathory, Jozsef; Trocsanyi, Zeno; Bozoki, Gabor; Vereczkey, Gyorgy; Grosz, Miklos
PATENT ASSIGNEE(S): Magyar Asvanyolaj es Foldgaskiserleti Intezet; Kozmetikai es Haztartasvegyipari Vallalat
SOURCE: Hung. Teljes, 19 pp.
CODEN: HUXXBU
DOCUMENT TYPE: Patent
LANGUAGE: Hungarian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
HU 8567		19740828	HU 1973-KO2595	19730604

AB Highly pure surfactants were prepd. by adding aq. ClCH2CO2Na [**3926-62-3**] to aq. MeNH2 [**74-89-5**] at 45-60.degree., removing excess MeNH2, and adding C12-18 alkanoyl chloride contg. PCl3. Thus, 120 g 31% aq. ClCH2CO2Na was added to 2 kg 30% aq. MeNH2 during 90 min at 45-50.degree./1.5-3 atm followed by 320 g 40% NaOH, MeNH2 was removed at 100.degree./40 mm, and the mixt. was treated with 544 g lauroyl chloride [112-16-3] contg. 4% PCl3 and 534 g 4N NaOH at 20.degree. to prep. 595 g N-dodecanoyl-N-methylglycine Na salt [**137-16-6**].

IT **3926-62-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with **methylamine**)

IT **74-89-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with sodium chloroacetate)

IT **137-16-6**
RL: TEM (Technical or engineered material use); USES (Uses)
(surfactants)

=> select hit rn l19 1-13
E1 THROUGH E105 ASSIGNED

=> fil reg
FILE 'REGISTRY' ENTERED AT 14:01:49 ON 04 MAR 2003
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DICTIONARY FILE UPDATES: 3 MAR 2003 HIGHEST RN 496834-05-0

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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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SELECT HIT RN L19 1-13

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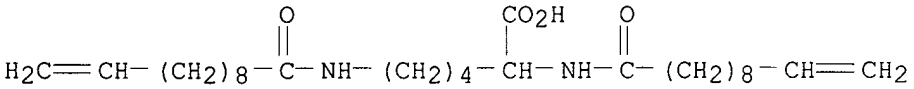
L20 104 S E1-E105 NOT L16
L21 17 S L20 AND L2

=> d ide can l21 1-17

L21 ANSWER 1 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **415973-29-4** REGISTRY
CN Lysine, N2,N6-bis(1-oxo-10-undecenyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C28 H50 N2 O4
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



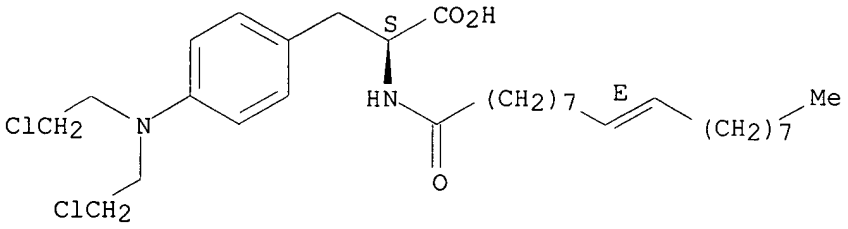
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:342440

L21 ANSWER 2 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **210980-81-7** REGISTRY
CN L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-N-[(9E)-1-oxo-9-octadecenyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H50 Cl2 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.
Double bond geometry as shown.

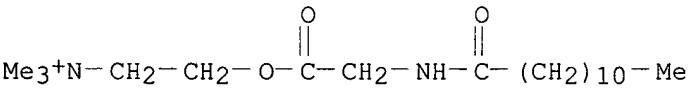


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 129:161184

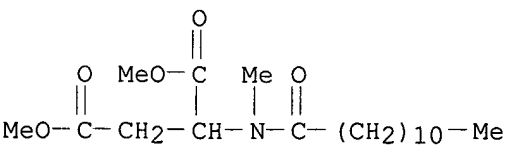
L21 ANSWER 3 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **171890-03-2** REGISTRY
CN Glycine, N-(1-oxododecyl)-, 2-(trimethylammonio)ethyl ester, chloride (9CI) (CA INDEX NAME)
MF C19 H39 N2 O3 . Cl
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 124:32570

L21 ANSWER 4 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **144207-27-2** REGISTRY
CN Aspartic acid, N-methyl-N-(1-oxododecyl)-, dimethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN DL-Aspartic acid, N-methyl-N-(1-oxododecyl)-, dimethyl ester
FS 3D CONCORD
MF C19 H35 N O5
SR CA
LC STN Files: CA, CAPLUS, CASREACT

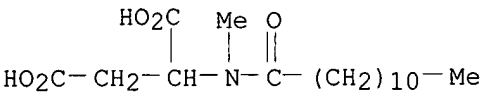


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 117:212964

L21 ANSWER 5 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **144207-23-8** REGISTRY
CN Aspartic acid, N-methyl-N-(1-oxododecyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN DL-Aspartic acid, N-methyl-N-(1-oxododecyl)-
FS 3D CONCORD
MF C17 H31 N O5
SR CA
LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

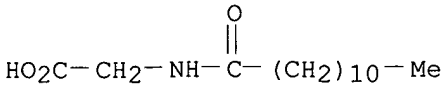
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 117:212964

L21 ANSWER 6 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **139645-76-4** REGISTRY
CN Glycine, N-(1-oxododecyl)-, compd. with 2,2',2''-nitrilotris[ethanol] (1:1) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ethanol, 2,2',2''-nitrilotris-, compd. with N-(1-oxododecyl)glycine (1:1) (9CI)
OTHER NAMES:
CN N-Dodecanoylglycine triethanolamine salt
CN N-Lauroylglycine triethanolamine salt
MF C14 H27 N O3 . C6 H15 N O3
SR CA
LC STN Files: CA, CAPLUS, CHEMLIST, TOXCENTER, USPATFULL

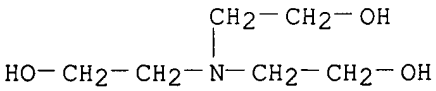
CM 1

CRN 7596-88-5
CMF C14 H27 N O3



CM 2

CRN 102-71-6
CMF C6 H15 N O3



13 REFERENCES IN FILE CA (1962 TO DATE)
13 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:335004

REFERENCE 2: 135:141973

REFERENCE 3: 130:213431

REFERENCE 4: 130:186995

REFERENCE 5: 127:126336

REFERENCE 6: 125:171583

REFERENCE 7: 124:352358

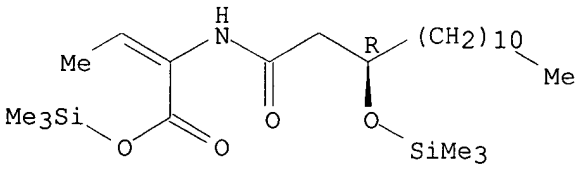
REFERENCE 8: 124:264112

REFERENCE 9: 124:235635

REFERENCE 10: 124:211500

L21 ANSWER 7 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **109329-83-1** REGISTRY
CN 2-Butenoic acid, 2-[[1-oxo-3-[(trimethylsilyl)oxy]tetradecyl]amino]-, trimethylsilyl ester, (R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H49 N O4 Si2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.
Double bond geometry unknown.



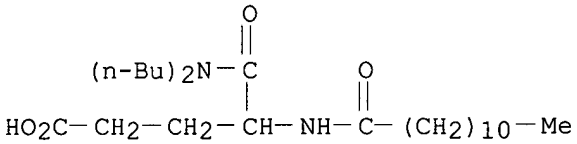
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 107:59436

L21 ANSWER 8 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **74784-46-6** REGISTRY
CN Pentanoic acid, 5-(dibutylamino)-5-oxo-4-[(1-oxododecyl)amino]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN N-Lauroylglutamic acid dibutylamide
FS 3D CONCORD

MF C25 H48 N2 O4
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

25 REFERENCES IN FILE CA (1962 TO DATE)
25 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:142209

REFERENCE 2: 137:316428

REFERENCE 3: 136:24951

REFERENCE 4: 131:248051

REFERENCE 5: 130:184109

REFERENCE 6: 127:225041

REFERENCE 7: 127:19971

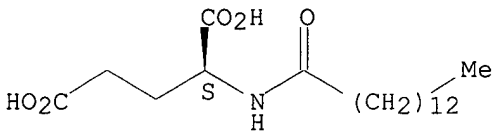
REFERENCE 8: 127:19970

REFERENCE 9: 127:19968

REFERENCE 10: 126:250482

L21 ANSWER 9 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **72716-26-8** REGISTRY
CN L-Glutamic acid, N-(1-oxotetradecyl)-, monopotassium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Monopotassium N-myristoyl-L-glutamate
CN N-Myristoylglutamate mono-potassium salt
FS STEREOSEARCH
MF C19 H35 N O5 . K
LC STN Files: CA, CAPLUS, CHEMLIST
CRN (53576-52-6)

Absolute stereochemistry.



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9 REFERENCES IN FILE CA (1962 TO DATE)

9 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:386361

REFERENCE 2: 136:371480

REFERENCE 3: 125:308647

REFERENCE 4: 124:126859

REFERENCE 5: 123:183310

REFERENCE 6: 112:25368

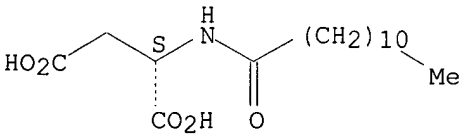
REFERENCE 7: 111:180457

REFERENCE 8: 102:26897

REFERENCE 9: 92:78572

L21 ANSWER 10 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **66466-61-3** REGISTRY
CN L-Aspartic acid, N-(1-oxododecyl)-, ammonium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Ammonium N-lauroyl-L-aspartate
FS STEREOSEARCH
MF C16 H29 N O5 . x H3 N
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
CRN (1116-13-8)

Absolute stereochemistry.



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3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:126336

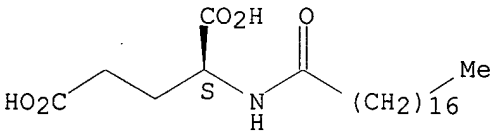
REFERENCE 2: 116:221334

REFERENCE 3: 88:192354

L21 ANSWER 11 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **58956-32-4** REGISTRY
CN L-Glutamic acid, N-(1-oxooctadecyl)-, monopotassium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN N-Stearoyl-L-glutamic acid monopotassium salt
CN N-Stearoylglutamic acid monopotassium salt
CN Stearoyl-L-glutamic acid monopotassium salt
FS STEREOSEARCH
MF C23 H43 N O5 . K
LC STN Files: CA, CAPLUS, CHEMLIST

CRN (3397-16-8)

Absolute stereochemistry.



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9 REFERENCES IN FILE CA (1962 TO DATE)
9 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:126936

REFERENCE 2: 133:153009

REFERENCE 3: 124:126859

REFERENCE 4: 122:64003

REFERENCE 5: 116:11020

REFERENCE 6: 113:103200

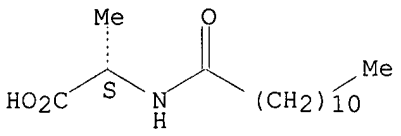
REFERENCE 7: 90:188916

REFERENCE 8: 90:106098

REFERENCE 9: 84:166618

L21 ANSWER 12 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **55535-58-5** REGISTRY
CN L-Alanine, N-(1-oxododecyl)-, monosodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN L-Alanine, N-(1-oxododecyl)-, sodium salt
OTHER NAMES:
CN N-Lauroyl-L-alanine sodium salt
CN Sodium L-lauroylalaninate
CN Sodium N-dodecanoyl-L-alaninate
CN Sodium N-lauroyl-L-alaninate
CN Sodium N-lauroylalaninate
FS STEREOSEARCH
MF C15 H29 N O3 . Na
LC STN Files: CA, CAPLUS, USPATFULL
CRN (52558-74-4)

Absolute stereochemistry.



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40 REFERENCES IN FILE CA (1962 TO DATE)
40 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:114258

REFERENCE 2: 136:172471

REFERENCE 3: 136:59162

REFERENCE 4: 133:165461

REFERENCE 5: 132:321708

REFERENCE 6: 132:4265

REFERENCE 7: 131:352892

REFERENCE 8: 129:163791

REFERENCE 9: 126:347613

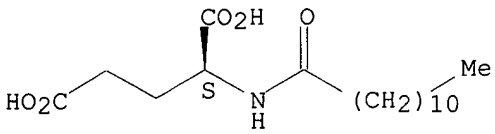
REFERENCE 10: 124:264100

L21 ANSWER 13 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **53576-49-1** REGISTRY
CN L-Glutamic acid, N-(1-oxododecyl)-, compd. with 2,2',2''-nitrilotris[ethanol] (1:1) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ethanol, 2,2',2''-nitrilotris-, N-(1-oxododecyl)-L-glutamate (1:1) (salt) (9CI)
OTHER NAMES:
CN Amisoft LS 1
CN Dodecylglutamic acid monotriethanolamine salt
CN Monotriethanolamine N-lauroyl-L-glutamate
CN Monotriethanolamine N-lauroylglutamate
CN N-Lauroyl-L-glutamic acid mono(triethanolamine) salt
CN N-Lauroyl-L-glutamic acid triethanolamine salt
CN N-Lauroylglutamic acid mono(triethanolamine) salt
FS STEREOSEARCH
MF C17 H31 N O5 . C6 H15 N O3
CI COM
LC STN Files: CA, CAPLUS, CHEMLIST, TOXCENTER, USPATFULL
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

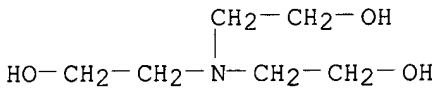
CRN 3397-65-7
CMF C17 H31 N O5

Absolute stereochemistry.



CM 2

CRN 102-71-6
CMF C6 H15 N O3



71 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
71 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:268125

REFERENCE 2: 137:252699

REFERENCE 3: 137:80652

REFERENCE 4: 135:335004

REFERENCE 5: 135:81858

REFERENCE 6: 133:177485

REFERENCE 7: 133:91030

REFERENCE 8: 130:353948

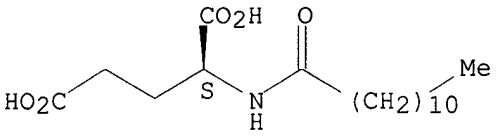
REFERENCE 9: 130:286810

REFERENCE 10: 130:286785

L21 ANSWER 14 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **29923-31-7** REGISTRY
CN L-Glutamic acid, N-(1-oxododecyl)-, monosodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glutamic acid, N-lauroyl-, monosodium salt, L- (8CI)
OTHER NAMES:
CN Acylglutamate LS 11
CN Amisoft LS 11
CN Hostapon CLG
CN LS 11
CN Monosodium N-lauroyl-L-glutamate
CN N-Dodecanoylglutamic acid sodium salt
CN N-Lauroyl-L-glutamic acid monosodium salt
CN N-Lauroyl-L-glutamic acid sodium salt
CN N-Lauroylglutamic acid sodium salt
CN Sodium N-dodecanoylglutamate
CN Sodium N-lauroyl-L-glutamate
CN Sodium N-lauroylglutamate
FS STEREOSEARCH

DR 51959-34-3
MF C17 H31 N O5 . Na
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, RTECS*, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (3397-65-7)

Absolute stereochemistry.



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175 REFERENCES IN FILE CA (1962 TO DATE)
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176 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:44472

REFERENCE 2: 138:44433

REFERENCE 3: 138:28952

REFERENCE 4: 138:8249

REFERENCE 5: 137:386361

REFERENCE 6: 137:268127

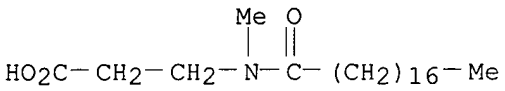
REFERENCE 7: 137:237446

REFERENCE 8: 137:129562

REFERENCE 9: 137:114265

REFERENCE 10: 137:95561

L21 ANSWER 15 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **21539-76-4** REGISTRY
CN .beta.-Alanine, N-methyl-N-(1-oxooctadecyl)-, sodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN .beta.-Alanine, N-methyl-N-stearoyl-, sodium salt (8CI)
OTHER NAMES:
CN Sodium N-stearoyl-N-methyl-.beta.-alaninate
MF C22 H43 N O3 . Na
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (13222-32-7)



8 REFERENCES IN FILE CA (1962 TO DATE)
8 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 134:155184

REFERENCE 2: 124:320161

REFERENCE 3: 124:149250

REFERENCE 4: 124:149249

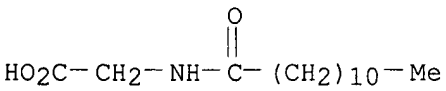
REFERENCE 5: 124:126859

REFERENCE 6: 112:141385

REFERENCE 7: 99:58742

REFERENCE 8: 70:38074

L21 ANSWER 16 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **18777-32-7** REGISTRY
CN Glycine, N-(1-oxododecyl)-, monosodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, N-lauroyl-, monosodium salt (7CI, 8CI)
CN Glycine, N-lauroyl-, sodium salt (6CI)
OTHER NAMES:
CN N-Lauroylglycine sodium salt
CN Sodium .beta.-lauroylaminoacetate
CN Sodium dodecanoylglycinate
CN Sodium N-lauroylglycinate
CN Sodium N-lauroylglycine
MF C14 H27 N O3 . Na
LC STN Files: CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
CRN (7596-88-5)



61 REFERENCES IN FILE CA (1962 TO DATE)
61 REFERENCES IN FILE CAPLUS (1962 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 136:371510

REFERENCE 2: 135:185242

REFERENCE 3: 134:136484

REFERENCE 4: 132:339088

REFERENCE 5: 132:4265

REFERENCE 6: 131:352893

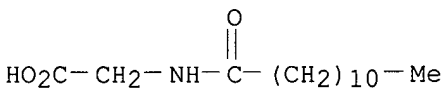
REFERENCE 7: 131:352892

REFERENCE 8: 131:303255

REFERENCE 9: 129:293703

REFERENCE 10: 129:291443

L21 ANSWER 17 OF 17 REGISTRY COPYRIGHT 2003 ACS
RN **7596-88-5** REGISTRY
CN Glycine, N-(1-oxododecyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, N-lauroyl- (6CI, 7CI, 8CI)
OTHER NAMES:
CN Lauroylglycine
CN N-Dodecanoyl-glycine
CN N-Lauroylglycine
FS 3D CONCORD
MF C14 H27 N O3
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

115 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
115 REFERENCES IN FILE CAPLUS (1962 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:100943

REFERENCE 2: 138:3665

REFERENCE 3: 137:108331

REFERENCE 4: 136:349915

REFERENCE 5: 136:50509

REFERENCE 6: 136:11496

REFERENCE 7: 135:197238

REFERENCE 8: 134:300629

REFERENCE 9: 134:224223

REFERENCE 10: 134:223994

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=> d his l22

(FILE 'REGISTRY' ENTERED AT 14:01:49 ON 04 MAR 2003)
L22 87 S L20 NOT L21

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1 RN **351224-26-5** REGISTRY
2 RN **109329-84-2** REGISTRY
3 RN **94005-95-5** REGISTRY
4 RN **74188-23-1** REGISTRY
5 RN **71561-11-0** REGISTRY
DR 118258-43-8
6 RN **67228-83-5** REGISTRY
7 RN **63085-03-0** REGISTRY
8 RN **57503-06-7** REGISTRY
9 RN **57413-95-3** REGISTRY
DR 33826-92-5
10 RN **55142-08-0** REGISTRY
11 RN **52128-35-5** REGISTRY
12 RN **39660-17-8** REGISTRY
DR 172960-21-3, 67167-39-9, 115566-37-5, 141313-15-7, 80296-69-1, 181379-27-1, 182893-05-6, 188018-51-1, 199455-15-7
13 RN **36362-09-1** REGISTRY
14 RN **31075-24-8** REGISTRY
15 RN **29873-33-4** REGISTRY
16 RN **29873-30-1** REGISTRY
17 RN **28159-98-0** REGISTRY
18 RN **27083-27-8** REGISTRY
19 RN **25988-97-0** REGISTRY
DR 113169-98-5, 153569-59-6, 153569-63-2, 92769-10-3, 184007-91-8, 186554-50-7, 223538-87-2, 285569-36-0
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DR 60617-10-9
21 RN **15163-36-7** REGISTRY
22 RN **14933-09-6** REGISTRY
DR 209907-49-3
23 RN **14933-08-5** REGISTRY
DR 134280-89-0, 74812-18-3, 76975-15-0, 107934-23-6
24 RN **14762-38-0** REGISTRY
25 RN **14676-61-0** REGISTRY
26 RN **13426-91-0** REGISTRY
DR 45650-15-5
27 RN **13360-45-7** REGISTRY
28 RN **13197-76-7** REGISTRY
DR 25590-03-8
29 RN **10563-26-5** REGISTRY
DR 50484-73-6
30 RN **10543-57-4** REGISTRY
31 RN **10378-23-1** REGISTRY
32 RN **7378-99-6** REGISTRY
33 RN **7287-19-6** REGISTRY
DR 83653-07-0
34 RN **7173-62-8** REGISTRY
DR 51792-01-9, 152725-46-7
35 RN **5915-41-3** REGISTRY

DR 63026-57-3
36 RN **5725-96-2** REGISTRY
DR 34689-88-8
37 RN **5538-95-4** REGISTRY
DR 52907-39-8
38 RN **5332-73-0** REGISTRY
39 RN **4317-79-7** REGISTRY
40 RN **4182-44-9** REGISTRY
41 RN **3926-62-3** REGISTRY
42 RN **3710-84-7** REGISTRY
43 RN **3332-27-2** REGISTRY
44 RN **2571-88-2** REGISTRY
DR 135462-97-4, 89258-01-5
45 RN **2372-82-9** REGISTRY
46 RN **1696-17-9** REGISTRY
47 RN **1643-20-5** REGISTRY
DR 177162-47-9, 163221-07-6, 135526-66-8, 73502-08-6, 160714-02-3, 311814-25-2
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49 RN **996-35-0** REGISTRY
50 RN **929-06-6** REGISTRY
51 RN **886-50-0** REGISTRY
52 RN **683-10-3** REGISTRY
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53 RN **330-55-2** REGISTRY
DR 56645-87-5
54 RN **330-54-1** REGISTRY
DR 127641-75-2, 56449-18-4, 102962-29-8, 150825-44-8, 201749-62-4
55 RN **150-68-5** REGISTRY
56 RN **141-43-5** REGISTRY
DR 9007-33-4
57 RN **124-09-4** REGISTRY
58 RN **122-34-9** REGISTRY
DR 11141-20-1, 12764-71-5, 119603-94-0, 39291-64-0
59 RN **122-07-6** REGISTRY
60 RN **121-44-8** REGISTRY
DR 449752-61-8, 168277-99-4, 172227-74-6, 144514-14-7
61 RN **112-75-4** REGISTRY
62 RN **112-69-6** REGISTRY
DR 39322-11-7
63 RN **112-24-3** REGISTRY
DR 14175-14-5, 105093-20-7, 71124-11-3, 39421-77-7, 110670-33-2
64 RN **112-18-5** REGISTRY
DR 83855-86-1, 52622-54-5
65 RN **111-92-2** REGISTRY
66 RN **111-42-2** REGISTRY
DR 8033-73-6
67 RN **111-41-1** REGISTRY
DR 51251-98-0
68 RN **111-40-0** REGISTRY
DR 8076-55-9, 53303-76-7, 54018-92-7, 59135-90-9, 94700-17-1, 98824-35-2, 73989-30-7, 26915-78-6, 419553-44-9
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70 RN **109-76-2** REGISTRY
DR 54018-94-9
71 RN **109-55-7** REGISTRY
DR 68497-58-5
72 RN **108-16-7** REGISTRY
DR 53657-16-2
73 RN **108-01-0** REGISTRY
DR 116134-09-9
74 RN **107-95-9** REGISTRY
DR 87867-95-6

75 RN **107-43-7** REGISTRY
DR 11042-12-9, 590-30-7, 24980-93-6, 45631-77-4
76 RN **107-15-3** REGISTRY
DR 8030-24-8, 85404-18-8
77 RN **104-78-9** REGISTRY
78 RN **101-54-2** REGISTRY
DR 12227-74-6
79 RN **101-21-3** REGISTRY
DR 11097-02-2
80 RN **100-37-8** REGISTRY
DR 102802-00-6
81 RN **94-75-7** REGISTRY
DR 15183-39-8
82 RN **83-89-6** REGISTRY
DR 66777-81-9
83 RN **75-31-0** REGISTRY
DR 85404-24-6
84 RN **74-89-5** REGISTRY
DR 119775-09-6, 85404-17-7, 42939-70-8
85 RN **74-55-5** REGISTRY
86 RN **57-09-0** REGISTRY
DR 12294-25-6, 104302-76-3, 108779-80-2, 69217-35-2, 79631-76-8
87 RN **55-86-7** REGISTRY
DR 37244-63-6, 159923-90-7

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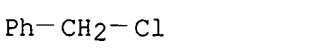
=> d ide can l22 1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 87

L22 ANSWER 1 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **351224-26-5** REGISTRY
CN 1,6-Hexanediamine, N,N,N',N'-tetramethyl-, polymer with (chloromethyl)oxirane, hydrochloride, compd. with (chloromethyl)benzene (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzene, (chloromethyl)-, compd. with N,N,N',N'-tetramethyl-1,6-hexanediamine polymer with (chloromethyl)oxirane hydrochloride (9CI)
CN Oxirane, (chloromethyl)-, polymer with N,N,N',N'-tetramethyl-1,6-hexanediamine, hydrochloride, compd. with (chloromethyl)benzene (9CI)
MF (C10 H24 N2 . C3 H5 Cl O)x . x C7 H7 Cl . x Cl H
PCT Polyether, Polyether formed, Polyionene, Polyionene formed
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 100-44-7
CMF C7 H7 Cl



CM 2

CRN 110563-13-8
CMF (C10 H24 N2 . C3 H5 Cl O)x
CCI PMS

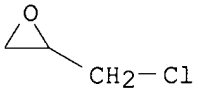
CM 3

CRN 111-18-2
CMF C10 H24 N2

$Me_2N-(CH_2)_6-NMe_2$

CM 4

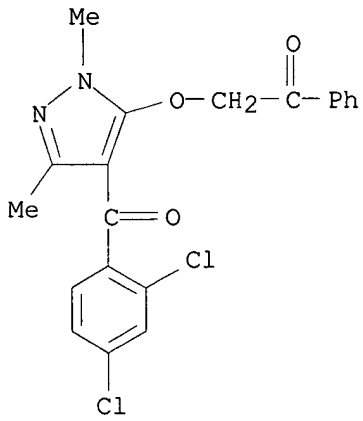
CRN 106-89-8
CMF C3 H5 Cl O



1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:124156

L22 ANSWER 5 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **71561-11-0** REGISTRY
CN Ethanone, 2-[[4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yl]oxy]-1-phenyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,3-Dimethyl-4-(2,4-dichlorobenzoyl)-5-phenacyloxypyrazole
CN Paicer
CN Pyrazoxyfen
CN SL 49
CN SL 49 (herbicide)
FS 3D CONCORD
DR 118258-43-8
MF C20 H16 Cl2 N2 O3
CI COM
LC STN Files: ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

164 REFERENCES IN FILE CA (1962 TO DATE)
38 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
164 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:68331

REFERENCE 2: 138:34679

REFERENCE 3: 137:274424

REFERENCE 4: 137:212317

REFERENCE 5: 137:181103

REFERENCE 6: 137:42990

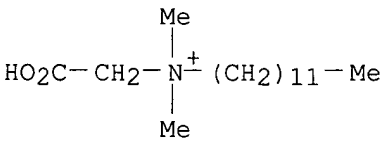
REFERENCE 7: 136:324283

REFERENCE 8: 136:195645

REFERENCE 9: 136:150647

REFERENCE 10: 136:123148

L22 ANSWER 10 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **55142-08-0** REGISTRY
CN 1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN (Carboxymethyl)dodecyldimethylammonium chloride (6CI, 7CI)
OTHER NAMES:
CN (Carboxymethyl)dimethyldodecylammonium chloride
CN Dodecyldimethyl betaine hydrochloride
CN Dodecyldimethyl(carboxymethyl)ammonium chloride
MF C16 H34 N O2 . Cl
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMLIST, MEDLINE
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (86100-46-1)



11 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
11 REFERENCES IN FILE CAPLUS (1962 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:124156

REFERENCE 2: 128:257132

REFERENCE 3: 121:18693

REFERENCE 4: 120:194529

REFERENCE 5: 107:85987

REFERENCE 6: 106:38843

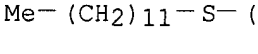
REFERENCE 7: 102:104634

REFERENCE 8: 102:104633

REFERENCE 9: 100:212123

REFERENCE 10: 86:44400

L22 ANSWER 15 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **29873-33-4** REGISTRY
CN 1-Propanamine, 3-(dodecylthio)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propylamine, 3-(dodecylthio)- (8CI)
FS 3D CONCORD
MF C15 H33 N S
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:124156

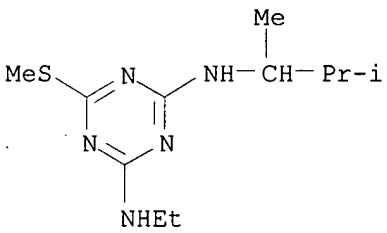
REFERENCE 2: 107:181207

REFERENCE 3: 85:110387

REFERENCE 4: 73:136790

L22 ANSWER 20 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **22936-75-0** REGISTRY
CN 1,3,5-Triazine-2,4-diamine, N-(1,2-dimethylpropyl)-N'-ethyl-6-(methylthio)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN s-Triazine, 2-[(1,2-dimethylpropyl)amino]-4-(ethylamino)-6-(methylthio)- (8CI)
OTHER NAMES:
CN 2-(1',2'-Dimethylpropylamino)-4-ethylamino-6-methylthio-1,3,5-triazine
CN 2-(1,2-Dimethylpropylamino)-4-ethylamino-6-methylthio-1,3,5-triazine
CN 2-Ethylamino-4-(1,2-dimethylpropylamino)-6-methylthio-s-triazine
CN 2-[(1,2-Dimethylpropyl)amino]-4-(ethylamino)-6-(methylthio)-s-triazine

CN 4-(1,2-Dimethylpropylamino)-2-ethylamino-6-methylthiotriazine
CN Belclene 310
CN C 18898
CN CG 7103
CN Dimethametorin
CN Dimethametryn
FS 3D CONCORD
DR 60617-10-9
MF C11 H21 N5 S
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CABA, CAPLUS, CHEMCATS, CHEMLIST, CIN, CSCHEM, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, RTECS*, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

168 REFERENCES IN FILE CA (1962 TO DATE)
25 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
168 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:102378

REFERENCE 2: 138:84934

REFERENCE 3: 138:68331

REFERENCE 4: 138:34679

REFERENCE 5: 137:368772

REFERENCE 6: 137:321558

REFERENCE 7: 137:310213

REFERENCE 8: 137:290320

REFERENCE 9: 137:274424

REFERENCE 10: 137:252229

L22 ANSWER 25 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **14676-61-0** REGISTRY
CN 1-Propanamine, 3-(tridecyloxy)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propylamine, 3-(tridecyloxy)- (7CI, 8CI)
OTHER NAMES:

CN 3-(Tridecyloxy)propylamine
CN Adogen 183
CN Armeen EA 13
FS 3D CONCORD
MF C16 H35 N O
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

29 REFERENCES IN FILE CA (1962 TO DATE)
14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
29 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 136:296570

REFERENCE 2: 135:124156

REFERENCE 3: 134:163446

REFERENCE 4: 134:73894

REFERENCE 5: 132:51484

REFERENCE 6: 130:53652

REFERENCE 7: 122:269865

REFERENCE 8: 120:324979

REFERENCE 9: 117:52192

REFERENCE 10: 115:213726

L22 ANSWER 30 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **10543-57-4** REGISTRY
CN Acetamide, N,N'-1,2-ethanediylbis[N-acetyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Diacetamide, N,N'-ethylenebis- (7CI, 8CI)
OTHER NAMES:
CN Mykon ATC
CN N,N'-Ethylenebis[diacetamide]
CN N,N,N',N'-Tetraacetylethylenediamine
CN Nikon A
CN T 0946
CN TAED
CN TAED 4303
CN Tetraacetylethylenediamine
FS 3D CONCORD
MF C10 H16 N2 O4
CI COM
LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, IFICDB, IFIPAT, IFIUDB,

MRCK*, MSDS-OHS, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

$Ac_2N-CH_2-CH_2-NAc_2$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

568 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
568 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:136224

REFERENCE 2: 138:130324

REFERENCE 3: 138:108725

REFERENCE 4: 138:108480

REFERENCE 5: 138:106407

REFERENCE 6: 138:95693

REFERENCE 7: 138:74648

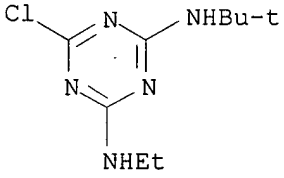
REFERENCE 8: 138:74646

REFERENCE 9: 138:61421

REFERENCE 10: 138:57863

L22 ANSWER 35 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **5915-41-3** REGISTRY
CN 1,3,5-Triazine-2,4-diamine, 6-chloro-N-(1,1-dimethylethyl)-N'-ethyl- (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN s-Triazine, 2-(tert-butylamino)-4-chloro-6-(ethylamino)- (7CI, 8CI)
OTHER NAMES:
CN 2-Chloro-4-(ethylamino)-6-(tert-butylamino)-s-triazine
CN 2-Chloro-4-ethylamino-6-tert-butylamino-1,3,5-triazine
CN 2-Chloro-4-tert-butylamino-6-ethylamino-s-triazine
CN 2-tert-Butylamino-4-chloro-6-ethylamino-s-triazine
CN 4-Ethylamino-6-tert-butylamino-2-chloro-S-triazine
CN ChlorCaragard
CN G 13529
CN Gardeprim A 1862
CN Gardoprim
CN GS 13529
CN Primatol M
CN Terbutazine
CN Terbuthylazine
CN Terbutylazine
CN Terbutylethylazine
CN tert-Butylazine
FS 3D CONCORD
DR 63026-57-3
MF C9 H16 Cl N5

CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NIOSHTIC, PROMT, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1205 REFERENCES IN FILE CA (1962 TO DATE)
48 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1208 REFERENCES IN FILE CAPLUS (1962 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:142036

REFERENCE 2: 138:142034

REFERENCE 3: 138:141999

REFERENCE 4: 138:141942

REFERENCE 5: 138:117002

REFERENCE 6: 138:102378

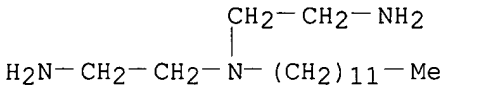
REFERENCE 7: 138:84870

REFERENCE 8: 138:68331

REFERENCE 9: 138:49138

REFERENCE 10: 138:34679

L22 ANSWER 40 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **4182-44-9** REGISTRY
CN 1,2-Ethanediamine, N-(2-aminoethyl)-N-dodecyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Diethylenetriamine, 4-dodecyl- (7CI, 8CI)
OTHER NAMES:
CN 4-Dodecyldiethylenetriamine
CN N-(2-Aminoethyl)-N-dodecyl-1,2-ethanediamine
FS 3D CONCORD
MF C16 H37 N3
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, HODOC*, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

36 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
36 REFERENCES IN FILE CAPLUS (1962 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:82510

REFERENCE 2: 136:1862

REFERENCE 3: 135:124156

REFERENCE 4: 132:347204

REFERENCE 5: 131:58945

REFERENCE 6: 128:316519

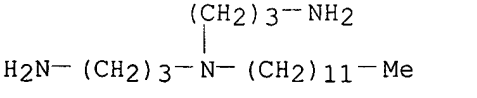
REFERENCE 7: 124:343573

REFERENCE 8: 124:264047

REFERENCE 9: 121:123870

REFERENCE 10: 118:66031

L22 ANSWER 45 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **2372-82-9** REGISTRY
CN 1,3-Propanediamine, N-(3-aminopropyl)-N-dodecyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Dodecylamine, N,N-bis(3-aminopropyl)- (6CI, 7CI, 8CI)
OTHER NAMES:
CN Lonzabac 12
CN Lonzabac 1230
CN N,N-Bis(3-aminopropyl)laurylamine
CN RC 5637
FS 3D CONCORD
MF C18 H41 N3
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, MEDLINE, TOXCENTER, ULIDAT, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

65 REFERENCES IN FILE CA (1962 TO DATE)
15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
65 REFERENCES IN FILE CAPLUS (1962 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:95198

REFERENCE 2: 137:296427

REFERENCE 3: 137:174922

REFERENCE 4: 136:274792

REFERENCE 5: 136:274791

REFERENCE 6: 136:274790

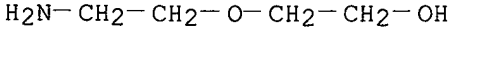
REFERENCE 7: 136:205538

REFERENCE 8: 136:56221

REFERENCE 9: 135:199640

REFERENCE 10: 135:124157

L22 ANSWER 50 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **929-06-6** REGISTRY
CN Ethanol, 2-(2-aminoethoxy)- (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN .beta.-(.beta.-Hydroxyethoxy)ethylamine
CN .beta.-Hydroxy-.beta.'-aminodiethyl ether
CN 1-Amino-2-(2-hydroxyethoxy)ethane
CN 2-(2-Aminoethoxy)ethanol
CN 2-(2-Hydroxyethoxy)ethylamine
CN 2-(Hydroxyethoxy)ethylamine
CN 2-Amino-2'-hydroxydiethyl ether
CN 2-Aminoethyl 2-hydroxyethyl ether
CN 5-Amino-3-oxapentan-1-ol
CN 5-Hydroxy-3-oxapentylamine
CN Diethylene glycol amine
CN Diethylene glycol monoamine
CN Diglycolamine
FS 3D CONCORD
MF C4 H11 N O2
CI COM
LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, DETHERM*, DIPPR*, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

974 REFERENCES IN FILE CA (1962 TO DATE)
107 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

975 REFERENCES IN FILE CAPLUS (1962 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:145066

REFERENCE 2: 138:129014

REFERENCE 3: 138:122793

REFERENCE 4: 138:116475

REFERENCE 5: 138:115066

REFERENCE 6: 138:106689

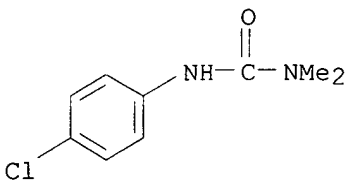
REFERENCE 7: 138:106504

REFERENCE 8: 138:99609

REFERENCE 9: 138:95248

REFERENCE 10: 138:91869

L22 ANSWER 55 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **150-68-5** REGISTRY
CN Urea, N'-(4-chlorophenyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Urea, 3-(p-chlorophenyl)-1,1-dimethyl- (8CI)
OTHER NAMES:
CN 1,1-Dimethyl-3-(4-chlorophenyl)urea
CN 1,1-Dimethyl-3-(p-chlorophenyl)urea
CN 1-(4-Chlorophenyl)-3,3-dimethylurea
CN 1-(p-Chlorophenyl)-3,3-dimethylurea
CN 3-(4-Chlorophenyl)-1,1-dimethylurea
CN 3-(p-Chlorophenyl)-1,1-dimethylurea
CN CMU
CN Karmex Monuron Herbicide
CN Karmex W. monuron herbicide
CN Monuron
CN N'-(4-Chlorophenyl)-N,N-dimethylurea
CN N,N-Dimethyl-N'-(4-chlorophenyl)urea
CN N-(4-Chlorophenyl)-N',N'-dimethylurea
CN N-(p-Chlorophenyl)-N',N'-dimethylurea
CN Telvar
CN Telvar Monuron Weedkiller
CN Telvar W. monuron weedkiller
FS 3D CONCORD
MF C9 H11 Cl N2 O
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PROMT, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1628 REFERENCES IN FILE CA (1962 TO DATE)
11 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1631 REFERENCES IN FILE CAPLUS (1962 TO DATE)
42 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:65744

REFERENCE 2: 138:23846

REFERENCE 3: 138:10984

REFERENCE 4: 137:334234

REFERENCE 5: 137:268019

REFERENCE 6: 137:257011

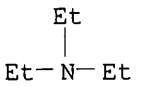
REFERENCE 7: 137:237296

REFERENCE 8: 137:181089

REFERENCE 9: 137:140343

REFERENCE 10: 137:121022

L22 ANSWER 60 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **121-44-8** REGISTRY
CN Ethanamine, N,N-diethyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Triethylamine (7CI, 8CI)
OTHER NAMES:
CN (Diethylamino)ethane
CN N,N-Diethylethanamine
CN TEA
FS 3D CONCORD
DR 449752-61-8, 168277-99-4, 172227-74-6, 144514-14-7
MF C6 H15 N
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

18159 REFERENCES IN FILE CA (1962 TO DATE)
715 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
18193 REFERENCES IN FILE CAPLUS (1962 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:146918

REFERENCE 2: 138:145474

REFERENCE 3: 138:139170

REFERENCE 4: 138:139161

REFERENCE 5: 138:139114

REFERENCE 6: 138:137735

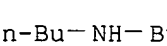
REFERENCE 7: 138:137711

REFERENCE 8: 138:137425

REFERENCE 9: 138:137319

REFERENCE 10: 138:137316

L22 ANSWER 65 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **111-92-2** REGISTRY
CN 1-Butanamine, N-butyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Dibutylamine (8CI)
OTHER NAMES:
CN Di-n-butylamine
CN N,N-Di-n-butylamine
CN N-Butyl-1-butanamine
FS 3D CONCORD
MF C8 H19 N
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4424 REFERENCES IN FILE CA (1962 TO DATE)
431 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4428 REFERENCES IN FILE CAPLUS (1962 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:146918

REFERENCE 2: 138:146625

REFERENCE 3: 138:145063

REFERENCE 4: 138:139873

REFERENCE 5: 138:136970

REFERENCE 6: 138:123273

REFERENCE 7: 138:122270

REFERENCE 8: 138:116818

REFERENCE 9: 138:116808

REFERENCE 10: 138:107892

L22 ANSWER 70 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **109-76-2** REGISTRY
CN 1,3-Propanediamine (6CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN .alpha.,.omega.-Propanediamine
CN 1,3-Diamino-n-propane
CN 1,3-Diaminopropane
CN 1,3-Propylenediamine
CN 1,3-Trimethylenediamine
CN 3-Aminopropylamine
CN DAP
CN TMEDA
CN Trimethylenediamine
FS 3D CONCORD
DR 54018-94-9
MF C3 H10 N2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

$H_2N-CH_2-CH_2-CH_2-NH_2$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4596 REFERENCES IN FILE CA (1962 TO DATE)
576 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4602 REFERENCES IN FILE CAPLUS (1962 TO DATE)
9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:146895

REFERENCE 2: 138:137491

REFERENCE 3: 138:126891

REFERENCE 4: 138:126312

REFERENCE 5: 138:122831

REFERENCE 6: 138:118827

REFERENCE 7: 138:116843

REFERENCE 8: 138:116782

REFERENCE 9: 138:112274

REFERENCE 10: 138:106654

L22 ANSWER 75 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **107-43-7** REGISTRY
CN Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ammonium compounds, substituted, (carboxymethyl)trimethyl-, hydroxide, inner salt (7CI)
CN Betaine (8CI)
CN Methanaminium, 1-carboxy-N,N,N-trimethyl-, hydroxide, inner salt
OTHER NAMES:
CN (Carboxymethyl)trimethylammonium hydroxide inner salt
CN (Trimethylammonio)acetate
CN .alpha.-Earleine
CN Abromine
CN Aminocoat
CN Aquadew AN 100
CN Betafin
CN Betafin BCR
CN Betafin BP
CN Cystadane
CN FinnStim
CN Glycine betaine
CN Glycine, trimethylbetaine
CN Glycocoll betaine
CN Glycylbetaine
CN Greenstim
CN Loramine AMB 13
CN Lycine
CN N,N,N-Trimethylglycine
CN Oxyneurine
CN Rubrine C
CN Trimethylglycine
CN Trimethylglycocoll
FS 3D CONCORD
DR 11042-12-9, 590-30-7, 24980-93-6, 45631-77-4
MF C5 H11 N O2
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PHAR, PIRA, PROMT,

RTECS*, SPECINFO, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

$Me_3^+N-CH_2-CO_2^-$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3891 REFERENCES IN FILE CA (1962 TO DATE)
558 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3895 REFERENCES IN FILE CAPLUS (1962 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:143132

REFERENCE 2: 138:142225

REFERENCE 3: 138:139225

REFERENCE 4: 138:139224

REFERENCE 5: 138:139195

REFERENCE 6: 138:136575

REFERENCE 7: 138:136472

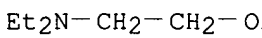
REFERENCE 8: 138:136382

REFERENCE 9: 138:134327

REFERENCE 10: 138:133792

L22 ANSWER 80 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **100-37-8** REGISTRY
CN Ethanol, 2-(diethylamino)- (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN (2-Hydroxyethyl)diethylamine
CN (Diethylamino)ethanol
CN .beta.-(Diethylamino)ethanol
CN 2-(Diethylamino)ethanol
CN 2-(Diethylamino)ethyl alcohol
CN 2-(N,N-Diethylamino)ethanol
CN 2-Hydroxytriethylamine
CN DEAE
CN DEEA
CN Diethyl(.beta.-hydroxyethyl)amine
CN Diethylethanolamine
CN Diethylmonoethanolamine
CN MKS
CN N,N-Diethyl(2-hydroxyethyl)amine
CN N,N-Diethyl-2-aminoethanol
CN N,N-Diethylethanolamine
CN N,N-Diethylmonoethanolamine
CN N-(2-Hydroxyethyl)diethylamine
CN Pennad 150
FS 3D CONCORD
DR 102802-00-6
MF C6 H15 N O

CI COM
LC STN Files: ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2244 REFERENCES IN FILE CA (1962 TO DATE)
217 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2245 REFERENCES IN FILE CAPLUS (1962 TO DATE)
30 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:124768

REFERENCE 2: 138:124637

REFERENCE 3: 138:124033

REFERENCE 4: 138:107904

REFERENCE 5: 138:106327

REFERENCE 6: 138:61316

REFERENCE 7: 138:61025

REFERENCE 8: 138:40529

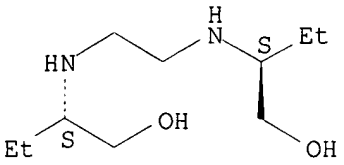
REFERENCE 9: 138:34669

REFERENCE 10: 138:23695

L22 ANSWER 85 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **74-55-5** REGISTRY
CN 1-Butanol, 2,2'-(1,2-ethanediyldiimino)bis-, (2S,2'S)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Butanol, 2,2'-(1,2-ethanediyldiimino)bis-, [S-(R*,R*)]-
CN 1-Butanol, 2,2'-(ethylenediimino)di-, (+)- (8CI)
OTHER NAMES:
CN (+)-Ethambutol
CN (+)-N,N'-Bis[1-(hydroxymethyl)propyl]ethylenediamine
CN (+)-S,S-Ethambutol
CN (2S,7S)-2,7-Diethyl-3,6-diazaoctane-1,8-diol
CN d-2,2'-(Ethylenediimino)bis(1-butanol)
CN d-2,2'-(Ethylenediimino)di-1-butanol
CN d-Ethambutol
CN d-N,N'-Bis(1-hydroxymethylpropyl)ethylenediamine
CN Diambutol
CN EMB
CN Etambutol
CN Ethambutol

FS STEREOSEARCH
MF C10 H24 N2 O2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NIOSHTIC, PROMT, RTECS*, SPECINFO, TOXCENTER, USAN, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1029 REFERENCES IN FILE CA (1962 TO DATE)
17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1030 REFERENCES IN FILE CAPLUS (1962 TO DATE)
23 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:133387

REFERENCE 2: 138:131149

REFERENCE 3: 138:131072

REFERENCE 4: 138:130524

REFERENCE 5: 138:119518

REFERENCE 6: 138:119422

REFERENCE 7: 138:112558

REFERENCE 8: 138:69765

REFERENCE 9: 138:49458

REFERENCE 10: 138:19507

L22 ANSWER 87 OF 87 REGISTRY COPYRIGHT 2003 ACS
RN **55-86-7** REGISTRY
CN Ethanamine, 2-chloro-N-(2-chloroethyl)-N-methyl-, hydrochloride (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Diethylamine, 2,2'-dichloro-N-methyl-, hydrochloride (8CI)
OTHER NAMES:
CN 1,5-Dichloro-3-methyl-3-azapentane hydrochloride
CN 2,2'-Dichloro-N-methyldiethylamine hydrochloride
CN Antimit
CN Azotoyperite
CN Bis(2-chloroethyl)-N-methylamine hydrochloride
CN Bis(2-chloroethyl)methylamine hydrochloride

CN C 6866
CN Caryolysine
CN Caryolysine hydrochloride
CN Chloramin
CN Chloramin hydrochloride
CN Chloramine
CN Chlorethamine
CN Chlormethine hydrochloride
CN Chlormethinum
CN Dema
CN Dichloren
CN Dichloren hydrochloride
CN Dichloromethyldiethylamine hydrochloride
CN Dimitan
CN Embechine
CN Embichin
CN Embichin hydrochloride
CN Embikhine
CN Embiquine
CN Erasol
CN Erasol hydrochloride
CN Erasol-Ido
CN HN2 hydrochloride
CN Kloramin
CN MBA hydrochloride
CN Mechlorethamine hydrochloride
CN Methylbis(.beta.-chloroethyl)amine hydrochloride
CN Methylbis(2-chloroethyl)amine hydrochloride
CN Mitoxine
CN Mustargen hydrochloride
CN Mustine hydrochloride
CN N,N-Bis(2-chloroethyl)methanamine hydrochloride
CN N-Lost
CN N-Methylbis(2-chloroethyl)amine hydrochloride
CN NCI C56382
CN Nitol
CN Nitol takeda
CN Nitrogen mustard
CN Nitrogen mustard hydrochloride
CN Nitrogranulogen
CN Nitrogranulogen hydrochloride
CN NM
CN NSC 762
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 37244-63-6, 159923-90-7
MF C5 H11 Cl2 N . Cl H
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DIOGENES, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
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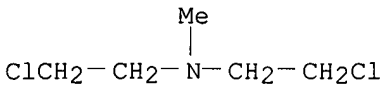
CRN (51-75-2)



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1159 REFERENCES IN FILE CA (1962 TO DATE)
55 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1160 REFERENCES IN FILE CAPLUS (1962 TO DATE)
17 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:144066

REFERENCE 2: 138:144065

REFERENCE 3: 138:69030

REFERENCE 4: 138:21357

REFERENCE 5: 138:19484

REFERENCE 6: 138:11201

REFERENCE 7: 137:358150

REFERENCE 8: 137:345716

REFERENCE 9: 137:288990

REFERENCE 10: 137:288320

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FILE 'HCAPLUS' ENTERED AT 14:06:20 ON 04 MAR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 4 Mar 2003  VOL 138 ISS 10
FILE LAST UPDATED: 3 Mar 2003  (20030303/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=>
=>

=> d stat que l24 nos
L1              STR
L2          8368 SEA FILE=REGISTRY SSS FUL L1
L7        286109 SEA FILE=REGISTRY ABB=ON  PLU=ON  ALKYLAMINE? OR ETHERAMINE?
                 OR QUATERNARY(L)AMMONIUM OR (PYRIDIN? OR IMIDAZOL?)(L)SURFACT?
                 OR DIAMINE? OR METHYLAMINE OR ETHYLAMINE OR PROPYLAMINE OR
                 BUTYLAMINE
L8            797 SEA FILE=REGISTRY ABB=ON  PLU=ON  METHYLETHERAMINE OR ETHYLETHE
                 RMAINE OR PROPYLETHERAMINE OR BUTYLETHERAMINE OR BETAIN?
L9        179899 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L8 OR ALKYLAMINE? OR ETHERAMIN
                 E? OR QUATERNARY(L)AMMONIUM OR (PYRIDIN? OR IMIDAZOL?)(L)SURFAC
                 T? OR DIAMINE? OR METHYLAMINE OR ETHYLAMINE OR PROPYLAMINE OR
                 BUTYLAMINE
L10       798259 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L7 OR METHYLETHERAMINE OR
                 ETHYLETHERMAINE OR PROPYLETHERAMINE OR BUTYLETHERAMINE OR
                 BETAIN? OR ?ETHERAMINE
L11         5722 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L2
L12         1637 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L2 AND (L9 OR L10)
L13          639 SEA FILE=REGISTRY ABB=ON  PLU=ON  GLYPHOS?
L14         5603 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L13 OR ?GLYPHOS?
L15            5 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L12 AND L14
L17         3497 SEA FILE=REGISTRY ABB=ON  PLU=ON  HERBIC?
L18       105727 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L17 OR ?HERBIC?
L19           13 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L18 AND L12) NOT L15
L23            4 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L11(L)?HERBICI?
L24            2 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L23 NOT (L15 OR L19)


=> d ibib abs hitrn l24 1-2

L24  ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:         2001:713071  HCAPLUS
DOCUMENT NUMBER:          135:253261
TITLE:                    Preparation of 2-phenylenediamine derivatives as
                          herbicides
```

INVENTOR(S): Jomaa, Hassan; Schlitzer, Martin
PATENT ASSIGNEE(S): Jomaa Pharmaka G.m.b.H., Germany
SOURCE: PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

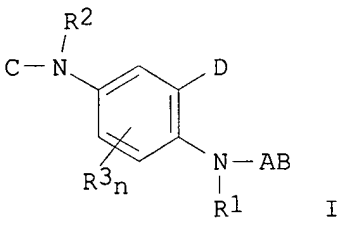
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001070026	A2	20010927	WO 2001-EP2418	20010303
WO 2001070026	A3	20020613		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

DE 10014141	A1	20011011	DE 2000-10014141	20000322

PRIORITY APPLN. INFO.: DE 2000-10014141 A 20000322
OTHER SOURCE(S): MARPAT 135:253261
GI



I

AB The 2-phenylenediamine derivs. I (n = 0-3; R1, R2 = H, alkyl, aryl, heteroaryl, acyl; R3 = H, alkyl, aryl, heteroaryl, arylalkyl, acyl, CN, NO2, R4X; R4 = H, alkyl, aryl, heteroaryl, aralkyl, acyl; X = NH, O, S, SO2, NHSO2, OSO2; A, B, C = org. groups) are prepd. as herbicides. I are usable for selective pre-emergent or postemergent control of weeds.

IT **83871-10-7 357436-84-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant in prepn. of 2-phenylenediamine deriv. **herbicide**)

IT **52558-68-6P**, N-Hexadecanoyl-.beta.-alanine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(reactant in prepn. of 2-phenylenediamine deriv. **herbicide**)

L24 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1976:70345 HCAPLUS
DOCUMENT NUMBER: 84:70345
TITLE: N-Acyl amino acids and their salts as herbicides
INVENTOR(S): Kida, Takao; Mizuno, Hiroshi; Okutsu, Masaru
PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50135229	A2	19751027	JP 1974-43740	19740418
JP 53035130	B4	19780926		

PRIORITY APPLN. INFO.: JP 1974-43740 19740418

AB Long-chain N-acyl amino acids and their salts are **herbicides** for rice. These compds. are effective against weeds such as Echinochloa oryzicola and Monochoria vaginalis but had no toxic effect on rice or on animals. Thus, N-lauryl-L-phenylalanine K salt [**57993-23-4**], applied to the soil at 100 g/are, completely inhibited the germination of E. oryzicola, M. vaginalis, Cyperus diformia, and broadleaf weeds.

IT **14379-40-9 14379-49-8 14379-54-5**
21394-85-4 35054-70-7 41489-14-9
56255-31-3 57993-23-4 57993-24-5
57993-25-6
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(**herbicide**)

=> select hit rn l24 1-2
E106 THROUGH E118 ASSIGNED

=> fil reg
FILE 'REGISTRY' ENTERED AT 14:06:41 ON 04 MAR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 MAR 2003 HIGHEST RN 496834-05-0
DICTIONARY FILE UPDATES: 3 MAR 2003 HIGHEST RN 496834-05-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

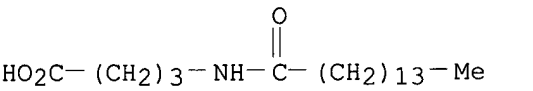
=>
=>

=> s e106-118
1 14379-40-9/BI
(14379-40-9/RN)
1 14379-49-8/BI
(14379-49-8/RN)
1 14379-54-5/BI
(14379-54-5/RN)
1 21394-85-4/BI
(21394-85-4/RN)
1 35054-70-7/BI

(35054-70-7/RN)
1 357436-84-1/BI
(357436-84-1/RN)
1 41489-14-9/BI
(41489-14-9/RN)
1 52558-68-6/BI
(52558-68-6/RN)
1 56255-31-3/BI
(56255-31-3/RN)
1 57993-23-4/BI
(57993-23-4/RN)
1 57993-24-5/BI
(57993-24-5/RN)
1 57993-25-6/BI
(57993-25-6/RN)
1 83871-10-7/BI
(83871-10-7/RN)
L25 13 (14379-40-9/BI OR 14379-49-8/BI OR 14379-54-5/BI OR 21394-85-4/BI OR 35054-70-7/BI OR 357436-84-1/BI OR 41489-14-9/BI OR 52558-68-6/BI OR 56255-31-3/BI OR 57993-23-4/BI OR 57993-24-5/BI OR 57993-25-6/BI OR 83871-10-7/BI)

=> d ide can l25 1-13

L25 ANSWER 1 OF 13 REGISTRY COPYRIGHT 2003 ACS
RN **357436-84-1** REGISTRY
CN Butanoic acid, 4-[(1-oxopentadecyl)amino]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H37 N O3
SR CA
LC STN Files: CA, CAPLUS



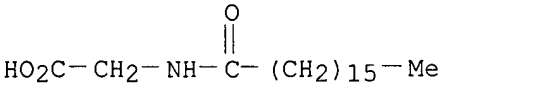
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:253261

REFERENCE 2: 135:210837

L25 ANSWER 2 OF 13 REGISTRY COPYRIGHT 2003 ACS
RN **83871-10-7** REGISTRY
CN Glycine, N-(1-oxoheptadecyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H37 N O3
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:253261

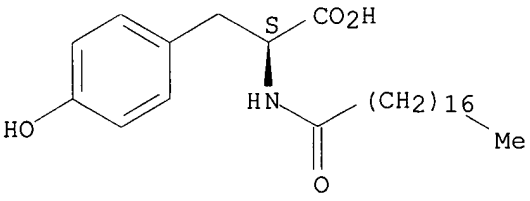
REFERENCE 2: 135:210837

REFERENCE 3: 123:192962

REFERENCE 4: 98:4781

L25 ANSWER 3 OF 13 REGISTRY COPYRIGHT 2003 ACS
RN **57993-25-6** REGISTRY
CN L-Tyrosine, N-(1-oxooctadecyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN L-Tyrosine, N-stearoyl- (6CI)
OTHER NAMES:
CN L-N-Octadecanoyltyrosine
CN N-Stearoyl-L-tyrosine
FS STEREOSEARCH
MF C27 H45 N O4
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, MEDLINE, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1962 TO DATE)
10 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 136:50905

REFERENCE 2: 126:51352

REFERENCE 3: 125:41442

REFERENCE 4: 124:299557

REFERENCE 5: 120:273543

REFERENCE 6: 120:227839

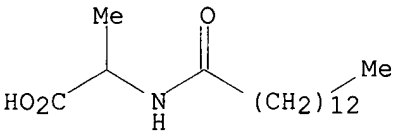
REFERENCE 7: 112:205295

REFERENCE 8: 110:160233

REFERENCE 9: 102:125216

REFERENCE 10: 84:70345

L25 ANSWER 4 OF 13 REGISTRY COPYRIGHT 2003 ACS
RN **57993-24-5** REGISTRY
CN Alanine, N-(1-oxotetradecyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN DL-Alanine, N-(1-oxotetradecyl)-
OTHER NAMES:
CN DL-Myristoylalanine
CN N-Myristoyl-DL-alanine
CN N-Myristyl-DL-alanine
MF C17 H33 N O3
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS, TOXCENTER
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1962 TO DATE)
9 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 123:297270

REFERENCE 2: 123:116343

REFERENCE 3: 115:47791

REFERENCE 4: 108:200506

REFERENCE 5: 108:167909

REFERENCE 6: 105:117013

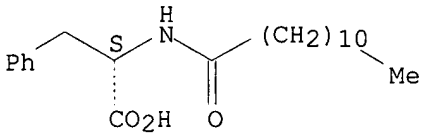
REFERENCE 7: 103:88184

REFERENCE 8: 98:4781

REFERENCE 9: 84:70345

L25 ANSWER 5 OF 13 REGISTRY COPYRIGHT 2003 ACS
RN **57993-23-4** REGISTRY
CN L-Phenylalanine, N-(1-oxododecyl)-, monopotassium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN N-Lauryl-L-phenylalanine potassium salt
FS STEREOSEARCH
MF C21 H33 N O3 . K
LC STN Files: CA, CAPLUS, TOXCENTER
CRN (14379-64-7)

Absolute stereochemistry.



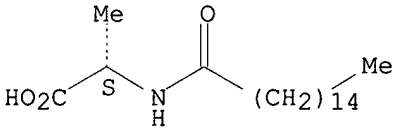
● K

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 84:70345

L25 ANSWER 6 OF 13 REGISTRY COPYRIGHT 2003 ACS
RN **56255-31-3** REGISTRY
CN L-Alanine, N-(1-oxohexadecyl)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN N-Hexadecanoyl-L-alanine
CN N-Palmitoyl-L-alanine
CN N-Palmityl-L-alanine
CN Palmitoyl-L-alanine
CN Palmityl-L-alanine
FS STEREOSEARCH
MF C19 H37 N O3
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16 REFERENCES IN FILE CA (1962 TO DATE)
16 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:38165

REFERENCE 2: 136:349915

REFERENCE 3: 130:228059

REFERENCE 4: 130:25342

REFERENCE 5: 129:230964

REFERENCE 6: 125:222448

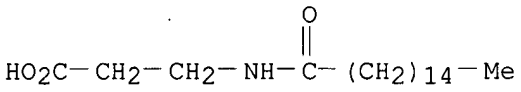
REFERENCE 7: 124:299557

REFERENCE 8: 121:238969

REFERENCE 9: 116:46046

REFERENCE 10: 115:47791

L25 ANSWER 7 OF 13 REGISTRY COPYRIGHT 2003 ACS
RN **52558-68-6** REGISTRY
CN .beta.-Alanine, N-(1-oxohexadecyl)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN N-Hexadecanoyl-.beta.-alanine
CN N-Palmitoyl-.beta.-alanine
FS 3D CONCORD
MF C19 H37 N O3
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16 REFERENCES IN FILE CA (1962 TO DATE)
16 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:100943

REFERENCE 2: 136:395315

REFERENCE 3: 135:253261

REFERENCE 4: 135:210837

REFERENCE 5: 133:366311

REFERENCE 6: 133:329119

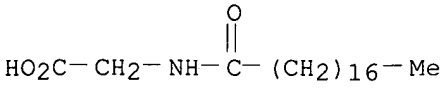
REFERENCE 7: 132:308659

REFERENCE 8: 131:228999

REFERENCE 9: 125:143306

REFERENCE 10: 100:55086

L25 ANSWER 8 OF 13 REGISTRY COPYRIGHT 2003 ACS
RN **41489-14-9** REGISTRY
CN Glycine, N-(1-oxooctadecyl)-, monosodium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN N-Stearoylglycine sodium salt
CN N-Stearylglycine sodium salt
MF C20 H39 N O3 . Na
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
CRN (6333-54-6)



11 REFERENCES IN FILE CA (1962 TO DATE)
11 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 132:4265

REFERENCE 2: 131:352892

REFERENCE 3: 128:66790

REFERENCE 4: 123:86612

REFERENCE 5: 121:136483

REFERENCE 6: 121:37943

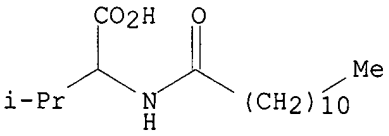
REFERENCE 7: 111:202447

REFERENCE 8: 90:64371

REFERENCE 9: 84:130817

REFERENCE 10: 84:70345

L25 ANSWER 9 OF 13 REGISTRY COPYRIGHT 2003 ACS
RN **35054-70-7** REGISTRY
CN Valine, N-(1-oxododecyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN DL-Valine, N-(1-oxododecyl)-
OTHER NAMES:
CN N-Dodecanoyl-DL-valine
CN N-Lauroyl-DL-valine
MF C17 H33 N O3
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1962 TO DATE)
13 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 123:29409

REFERENCE 2: 122:323193

REFERENCE 3: 120:107647

REFERENCE 4: 115:47791

REFERENCE 5: 103:88184

REFERENCE 6: 98:4781

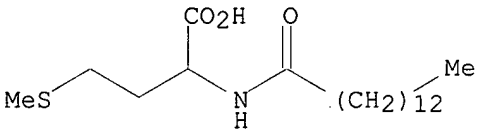
REFERENCE 7: 97:69407

REFERENCE 8: 97:19579

REFERENCE 9: 85:154983

REFERENCE 10: 85:124364

L25 ANSWER 10 OF 13 REGISTRY COPYRIGHT 2003 ACS
RN **21394-85-4** REGISTRY
CN Methionine, N-(1-oxotetradecyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN DL-Methionine, N-(1-oxotetradecyl)-
CN Methionine, N-myristoyl-, DL- (8CI)
OTHER NAMES:
CN N-Myristyl-DL-methionine
MF C19 H37 N O3 S
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

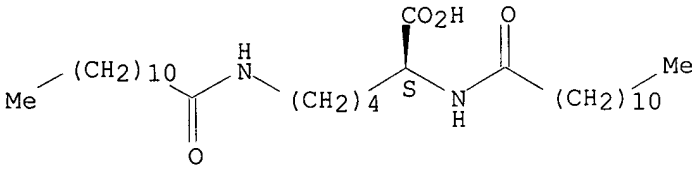
REFERENCE 1: 84:70345

REFERENCE 2: 70:38057

L25 ANSWER 11 OF 13 REGISTRY COPYRIGHT 2003 ACS
RN **14379-54-5** REGISTRY
CN L-Lysine, N2,N6-bis(1-oxododecyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Lysine, N2,N6-dilauroyl-, L- (6CI, 8CI)
OTHER NAMES:
CN Dilauroyl-L-lysine
CN N.alpha.,N.epsilon.-Didodecanoyl-L-lysine
CN N2,N6-Dilauryl-L-lysine
FS STEREOSEARCH
DR 137392-28-0
MF C30 H58 N2 O4
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMLIST, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16 REFERENCES IN FILE CA (1962 TO DATE)
16 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 129:163791

REFERENCE 2: 127:327528

REFERENCE 3: 121:233498

REFERENCE 4: 115:233767

REFERENCE 5: 108:33666

REFERENCE 6: 107:146519

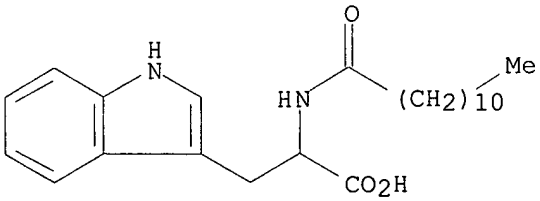
REFERENCE 7: 105:153544

REFERENCE 8: 104:155984

REFERENCE 9: 103:42408

REFERENCE 10: 98:4781

L25 ANSWER 12 OF 13 REGISTRY COPYRIGHT 2003 ACS
RN **14379-49-8** REGISTRY
CN Tryptophan, N-(1-oxododecyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN DL-Tryptophan, N-(1-oxododecyl)-
CN Tryptophan, N-lauroyl-, DL- (6CI, 8CI)
OTHER NAMES:
CN N-Dodecanoyl-DL-tryptophan
CN N-Lauryl-DL-tryptophan
MF C23 H34 N2 O3
LC STN Files: CA, CAOLD, CAPLUS, CHEMCATS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1962 TO DATE)
6 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 123:29409

REFERENCE 2: 122:323193

REFERENCE 3: 120:107647

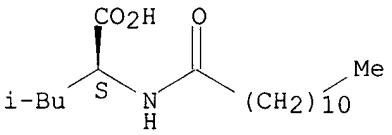
REFERENCE 4: 115:47791

REFERENCE 5: 84:70345

REFERENCE 6: 66:29058

L25 ANSWER 13 OF 13 REGISTRY COPYRIGHT 2003 ACS
RN **14379-40-9** REGISTRY
CN L-Leucine, N-(1-oxododecyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Leucine, N-lauroyl-, L- (6CI, 8CI)
OTHER NAMES:
CN N-Dodecanoyl-L-leucine
CN N-Dodecanoylleucine
CN N-Lauroyl-L-leucine
CN N-Lauroylleucine
FS STEREOSEARCH
MF C18 H35 N O3
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, IPA, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

45 REFERENCES IN FILE CA (1962 TO DATE)
45 REFERENCES IN FILE CAPLUS (1962 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:108331

REFERENCE 2: 135:77058

REFERENCE 3: 133:192610

REFERENCE 4: 131:92352

REFERENCE 5: 129:163791

REFERENCE 6: 127:116509

REFERENCE 7: 126:146034

REFERENCE 8: 124:72507

REFERENCE 9: 123:127744

REFERENCE 10: 123:29409

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